Dear Student,

I am pleased to welcome you to National University on behalf of our faculty, staff, Board of Trustees, your fellow students and more than 102,900 alumni.

Founded in 1971, National was among the first in higher education to recognize and strive to meet the needs of adult learners. As awareness has grown that contemporary university students may no longer be recent high school graduates, but rather working professionals, National has stepped forward as a leader in the development of innovative, challenging and accessible degree programs.

Throughout this catalog, and in every class offered at National, you will see a constant focus on quality and an ongoing commitment to incorporate new technologies into National’s curriculum. Our online courses are continually evolving, allowing students worldwide to receive instruction via the Internet in the areas of teacher education, business, criminal justice, e-commerce, global studies and instructional technology.

Always looking toward the future, National University shapes its new programs to reflect the changing demands of a global business environment.

It is our goal to ensure that the education you receive from National University is high-quality, relevant and on the cutting edge of adult learning. We look forward to an even more distinguished future as we seek new ways to meet the needs of our students and of our communities.

Sincerely,

Jerry C. Lee
Chancellor
National University System
President
National University
Note: the University reserves the right to change or modify policies, regulations, curricula, courses, tuition and fees, or any other aspect of its programs described in this catalog at any time.

Not all courses or programs listed in this catalog will be available at every learning facility or online.

Not all facilities, equipment and other resources will be available at every learning center.

Catalog Effective Date: September 1, 2003
Table of Contents

1 Board of Trustees and University Administration
2 Calendar and Class Schedules
7 Location Key
10 Central Administration
11 Campus Locations and Functions Listing
17 General Information
27 Continuing Education
33 Financial Aid
43 Policies and Procedures
57 Academic Information for Undergraduate Degrees
67 Academic Information for Graduate Degrees
73 General Education
77 School of Arts and Sciences
103 School of Business and Information Management
133 School of Education
167 School of Engineering and Technology
175 Course Descriptions
219 Core Adjunct Faculty
224 Adjunct Faculty
235 Index
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Distinguished Fellow, American Psychiatric Association

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President, National University

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Associate Regional Dean, San Diego

David Waller, M.A.
Associate Regional Dean, Costa Mesa

Tuey Wise, M.B.A.
Associate Regional Dean, International Programs

Mahvash Yadegarpour, M.B.A.
Associate Regional Dean, Los Angeles
## Calendar and Class Schedules

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Begins:</th>
<th>Ends:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter 2003</td>
<td>Monday, September 29</td>
<td>Saturday, December 20</td>
</tr>
<tr>
<td>Winter 2004</td>
<td>Monday, January 5</td>
<td>Saturday, March 27</td>
</tr>
<tr>
<td>Spring 2004</td>
<td>Monday, April 5</td>
<td>Saturday, June 26</td>
</tr>
<tr>
<td>Summer 2004</td>
<td>Tuesday, July 6</td>
<td>Saturday, September 25</td>
</tr>
<tr>
<td>Fall 2004</td>
<td>Monday, September 27</td>
<td>Saturday, December 18</td>
</tr>
<tr>
<td>Winter 2005</td>
<td>Monday, January 3</td>
<td>Saturday, March 26</td>
</tr>
<tr>
<td>Spring 2005</td>
<td>Monday, April 4</td>
<td>Saturday, June 25</td>
</tr>
<tr>
<td>Summer 2005</td>
<td>Tuesday, July 5</td>
<td>Saturday, September 24</td>
</tr>
<tr>
<td>Fall 2005</td>
<td>Monday, September 26</td>
<td>Saturday, December 17</td>
</tr>
<tr>
<td>Winter 2006</td>
<td>Monday, January 2</td>
<td>Saturday, March 25</td>
</tr>
<tr>
<td>Spring 2006</td>
<td>Monday, April 3</td>
<td>Saturday, June 24</td>
</tr>
<tr>
<td>Summer 2006</td>
<td>Monday, July 3</td>
<td>Saturday, September 23</td>
</tr>
<tr>
<td>Fall 2006</td>
<td>Monday, September 25</td>
<td>Saturday, December 16</td>
</tr>
<tr>
<td>Winter 2007</td>
<td>Monday, January 7</td>
<td>Saturday, March 31</td>
</tr>
<tr>
<td>Spring 2007</td>
<td>Monday, April 9</td>
<td>Saturday, June 30</td>
</tr>
<tr>
<td>Summer 2007</td>
<td>Monday, July 9</td>
<td>Saturday, September 29</td>
</tr>
<tr>
<td>Fall 2007</td>
<td>Monday, October 1</td>
<td>Saturday, November 22 and Friday, November 23</td>
</tr>
<tr>
<td>Winter 2008</td>
<td>Monday, January 7</td>
<td>Saturday, March 29</td>
</tr>
<tr>
<td>Spring 2008</td>
<td>Monday, April 7</td>
<td>Saturday, June 28</td>
</tr>
<tr>
<td>Summer 2008</td>
<td>Monday, July 7</td>
<td>Saturday, September 1</td>
</tr>
<tr>
<td>Fall 2008</td>
<td>Monday, September 29</td>
<td>Saturday, December 20</td>
</tr>
</tbody>
</table>
Class Calendar at a Glance

- ◯ denotes starting dates of classes.
- □ denotes national holiday. The University will be closed on this day.
## Onsite Undergraduate Class Schedule

**Online classes follow the same beginning date as onsite classes. Ending dates vary by program.**

<table>
<thead>
<tr>
<th>Weekday</th>
<th>Time</th>
<th>Saturday Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday/Wednesday (8 sessions)</td>
<td>5:30 p.m.-10:00 p.m.</td>
<td>8:00 a.m.-12:30 p.m. or 1:00 p.m.-5:30 p.m.; Normally two Saturdays, three Saturdays if weekday holiday makes it necessary.</td>
</tr>
<tr>
<td>Tuesday/Thursday (8 sessions)</td>
<td>5:30 p.m.-10:00 p.m.</td>
<td>8:00 a.m.-12:30 p.m. or 1:00 p.m.-5:30 p.m.; Normally two Saturdays, three Saturdays if weekday holiday makes it necessary.</td>
</tr>
</tbody>
</table>

### UNDERGRADUATE COLLEGE

<table>
<thead>
<tr>
<th>Weekday</th>
<th>Time</th>
<th>Friday Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday/Wednesday (8 sessions)</td>
<td>First two sessions: 9:00 a.m.-3:00 p.m. Last six sessions: 9:00 a.m.-2:30 p.m.</td>
<td>Scheduled when a regular class date falls on a holiday.</td>
</tr>
<tr>
<td>Tuesday/Thursday (8 sessions)</td>
<td>First two sessions: 9:00 a.m.-3:00 p.m. Last six sessions: 9:00 a.m.-2:30 p.m.</td>
<td>Scheduled when a regular class date falls on a holiday.</td>
</tr>
</tbody>
</table>

24 month calendar follows:

### Onsite Undergraduate Class Schedule

#### Fall Quarter 2003
- September 29, October 1, 6, 8, 11(8:00-12:30), 13, 15, 20, 22, 25(1:00-5:30)
- October 27, 29, November 3, 5, 10, 12, 15(8:00-12:30), 17, 19, 22(8:00-12:30)
- November 24, 26, December 1, 3, 6(8:00-12:30), 8, 10, 15, 17, 20(1:00-5:30)

#### Winter Quarter 2004
- January 5, 7, 10, 12(8:00-12:30), 14, 21, 24(8:00-12:30), 26, 28, 31(8:00-12:30)
- February 2, 4, 7, 9, 11, 18, 21(1:00-5:30), 23, 25, 28(8:00-12:30)
- March 1, 3, 8, 10, 15, 17, 20(8:00-12:30), 22, 24, 27(8:00-12:30)

#### Spring Quarter 2004
- April 5, 7, 12, 14, 17(8:00-12:30), 19, 21, 26, 28, May 1(1:00-5:30)
- May 3, 5, 10, 12, 17, 19, 22(8:00-12:30), 24, 26, 29(8:00-12:30)
- June 2, 9(8:00-12:30), 7, 9, 12(8:00-12:30), 14, 16, 21, 23, 26(1:00-5:30)

#### Summer Quarter 2004
- July 7, 10, 12, 14(8:00-12:30), 16, 18, 23, 25, 28(1:00-5:30)
- August 30, September 1, 8, 11(1:00-5:30), 13, 15, 18(8:00-12:30), 20, 22, 25(8:00-12:30)

#### Fall Quarter 2004
- September 27, 29, October 4, 6, 9(8:00-12:30), 11, 13, 18, 20, 23(1:00-5:30)
- October 25, 27, November 1, 3, 8, 10, 13(8:00-12:30), 15, 17, 20(8:00-12:30)
- November 22, 24, December 1, 4(8:00-12:30), 6, 8, 13, 15, 18(1:00-5:30)

#### Winter Quarter 2005
- January 5, 7, 10, 12(8:00-12:30), 16, 18, 23, 25, 28(1:00-5:30)
- February 28, March 2, 7, 9, 14, 16, 19(8:00-12:30), 21, 23, 26(8:00-12:30)

#### Spring Quarter 2005
- April 4, 6, 11, 13, 16(8:00-12:30), 18, 20, 25, 27, 30(1:00-5:30)
- May 2, 4, 9, 11, 16, 18, 21(8:00-12:30), 23, 25, 28(8:00-12:30)
- June 1, 4(8:00-12:30), 6, 8, 11(8:00-12:30), 13, 15, 20, 22, 25(1:00-5:30)

#### Summer Quarter 2005
- July 6, 9(8:00-12:30), 11, 13, 18, 20, 23(8:00-12:30), 25, 27, 30(8:00-12:30)
- August 1, 3, 8, 10, 13(8:00-12:30), 15, 17, 22, 24, 27(1:00-5:30)
- August 29, 31, September 7, 10(1:00-5:30), 12, 14, 17(8:00-12:30), 19, 21, 24(8:00-12:30)

#### Fall Quarter 2005
- September 26, 28, October 3, 5, 8(8:00-12:30), 10, 12, 17, 19, 22(1:00-5:30)
- October 24, 26, 31, November 2, 7, 9, 12(8:00-12:30), 14, 16, 19(8:00-12:30)
- November 21, 23, 28, 30, December 3(8:00-12:30), 5, 7, 12, 14, 17(1:00-5:30)
National University’s academic year is divided into four twelve week quarters, each composed of three one-month classes. Classes are held two evenings each week from 5:30 to 10:00 p.m. Undergraduate students generally attend two Saturday sessions from 8:00 a.m. to 12:30 p.m. or 1:00 p.m. to 5:30 p.m. Graduate students meet for a final session on the last Saturday of the 4-week term, either from 8:30 a.m. to 12:30 p.m. or 1:00 p.m. to 5:00 p.m.

Undergraduate day classes are held either Monday and Wednesday or Tuesday and Thursday from 9:00 a.m. to 2:30 p.m.

### Onsite Graduate Class Schedule

<table>
<thead>
<tr>
<th>Weekday</th>
<th>Time</th>
<th>Saturday Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday/Wednesday (8 sessions)</td>
<td>5:30 p.m.-10:00 p.m.</td>
<td>8:30 a.m.-12:30 p.m. or 1:00 p.m.-5:00 p.m.; Normally one Saturday, two Saturdays if weekday holiday makes it necessary.</td>
</tr>
<tr>
<td>Tuesday/Thursday (8 sessions)</td>
<td>5:30 p.m.-10:00 p.m.</td>
<td>8:30 a.m.-12:30 p.m. or 1:00 p.m.-5:00 p.m.; Normally one Saturday, two Saturdays if weekday holiday makes it necessary.</td>
</tr>
</tbody>
</table>

24 month calendar follows:
Headquartered in San Diego, National University has 29 regional centers in eleven major metropolitan areas throughout California and online.
F-K  Bakersfield Academic Center  
4560 California Avenue,  
Suite 300  
Bakersfield, CA  93309-1150  
(661) 864-2360

F-S  Fresno Academic Center  
20 River Park Place West  
Fresno, CA  93720-1551  
(559) 256-4900

J-S  San Jose Academic Center  
3031 Tisch Way,  
100 Plaza East  
San Jose, CA  95128-2541  
(408) 236-1100

L-A  Los Angeles Academic Center  
9920 South La Cienega Boulevard,  
Suite 404  
Inglewood, CA  90301-4423  
(310) 258-6600

L-S  San Fernando Learning Center  
14724 Ventura Boulevard,  
Suite 801  
Sherman Oaks, CA  91403-3501  
(818) 817-2460

N-B  Carlsbad Learning Center  
705 Palomar Airport Road,  
Suite 150  
Carlsbad, CA  92009-1029  
(760) 268-1500

N-R  Rancho Bernardo Learning Center  
16875 West Bernardo Drive,  
Suite 150  
San Diego, CA  92127-1675  
(800) 628-8648

N-B  Costa Mesa Academic Center  
3990 Harbor Boulevard  
Costa Mesa, CA  92626-1502  
(714) 429-5100

O-S  San Bernardino Academic Center  
804 East Brier Drive  
San Bernardino, CA  92408-2815  
(909) 806-3300

O-P  Costa Mesa Academic Center  
3990 Harbor Boulevard  
Costa Mesa, CA  92626-1502  
(714) 429-5100

P-N  Twenty-nine Palms Learning Center  
Marine Air Ground Task Force Training Center  
Building 1526, R.O. Box 6051  
Twenty-nine Palms,  
CA  92278-1188  
(760) 830-6887

Q-Z  Online Classes  
(858) 642-8210

S-Q  Stockton Academic Center  
3520 Brookside Road  
Stockton, CA  95219-2319  
(209) 475-1400

S-R  Redding Academic Center  
2195 Larkspur Lane, Suite 200  
Redding, CA  96002-0629  
(530) 226-4000

S-T  Sacramento Academic Center  
9320 Tech Center Drive  
Sacramento, CA  95826-2558  
(916) 855-4100

V-2  Marine Corps Air Station Learning Center  
Building 5305  
MCAS Miramar  
San Diego, CA  92145  
(619) 563-7355

V-3  Naval Air Station North Island Learning Center  
Building 610  
San Diego, CA  92135-7024  
(619) 563-7478

V-4  Naval Hospital Admissions Office  
Naval Hospital  
Building 26, Room 115  
San Diego, CA  92134-5000  
(619) 563-7470

V-5  Naval Station 32nd Street Learning Center  
Naval Station, Building 151  
San Diego, CA  92136-5000  
(619) 563-7474

V-6  Fleet Anti-Submarine Warfare Training Center Learning Center  
Fleet Anti-Submarine Warfare Training Center, Building 7  
San Diego, CA  92147-5090  
(619) 563-7488

V-8  Naval Submarine Base Admissions Office  
Naval Submarine Base,  
140 Sylvester Road, Building 138  
San Diego, CA  92106-3521  
(619) 563-7490

V-9  National University Library at Spectrum Business Park  
9393 Lightwave Avenue  
San Diego, CA  92123-1447  
(858) 541-7900

V-A  Student Service Center  
4121 Camino del Rio South  
San Diego, CA  92108-4103  
(619) 563-7241

V-E  Technology Center  
4141 Camino del Rio South  
San Diego, CA  92108-4103  
(619) 563-7240

V-F  Naval Amphibious Base Learning Center  
NAB Coronado, Building 345  
San Diego, CA  92155-5000  
(619) 563-7492

V-H  Academic Headquarters  
11255 North Torrey Pines Road  
La Jolla, CA  92037-1011  
(858) 642-8000

V-I  Balboa Learning Center  
4719 Viewridge Avenue  
San Diego, CA  92123-1685  
(619) 563-2500

V-J  South Bay Learning Center  
660 Bay Boulevard,  
Suite 110  
Chula Vista, CA  91910-5200  
(619) 563-7415

V-K  Kearny Mesa Learning Center  
3580 Aero Court  
San Diego, CA  92123-1711  
(619) 563-7300

V-M  Marine Corps Recruit Depot Learning Center  
Building 111  
San Diego, CA  92140-5000  
(619) 563-7482

V-N  Administrative Headquarters  
11355 North Torrey Pines Road  
La Jolla, CA  92037-1011  
(858) 642-8000

V-O  La Mesa Learning Center  
7787 Alvarado Road  
La Mesa, CA  91941-3643  
(619) 337-7500

V-P  Spectrum Business Park Academic Center  
9388 Lightwave Avenue  
San Diego, CA  92123-1426  
(858) 541-7700

V-T  National University Library at Spectrum Business Park  
9393 Lightwave Avenue  
San Diego, CA  92123-1447  
(858) 541-7900

Location Key
Location Maps

V-5 Naval Station 32nd Street Learning Center
Naval Station, Building 131
San Diego, CA  92136-5000
(619) 563-7474

V-F Naval Amphibious Base Learning Center
NAB Coronado, Building 345
San Diego, CA  92155-5000
(619) 563-7492

V-P Spectrum Business Park Academic Center
9388 Lightwave Avenue
San Diego, CA  92123-1426
(858) 541-7700

V-P National University Library at Spectrum Business Park
9393 Lightwave Avenue
San Diego, CA  92123-1447
(858) 541-7900

V-2 Marine Corps Air Station Learning Center
Building 5305, MCAS Miramar
San Diego, CA  92145
(619) 563-7355

V-3 Naval Air Station North Island Learning Center
Building 610
San Diego, CA  92135-7024
(619) 563-7478

N-R Rancho Bernardo Learning Center
16875 West Bernardo Drive, Suite 150
San Diego, CA  92127-1675
(800) 628-8648

N-C Carlsbad Learning Center
705 Palomar Airport Road, Suite 150
Carlsbad, CA  92009-1029
(760) 268-1500
Location Maps

San Bernardino County

P-N Twentynine Palms Learning Center
Marine Air Ground Task Force Training Center
Bldg. 1526, P.O. Box 6051, Twentynine Palms, CA 92278-1118
(760) 830-6887

Los Angeles County

L-A Los Angeles Academic Center
9920 South La Cienega Boulevard, Suite 404
Inglewood, CA 90301-4423
(310) 258-6600

Orange County

O-B Orange Learning Center
765 The City Drive South
Orange, CA 92868-4942
(714) 429-5300

San Bernardino County

O-S San Bernardino Academic Center
804 East Brier Drive
San Bernardino, CA 92408-2815
(909) 806-3300

Los Angeles County

L-S San Fernando Learning Center
14724 Ventura Boulevard, Suite 801
Sherman Oaks, CA 91403-3501
(818) 817-2460

Orange County

O-P Costa Mesa Academic Center
3390 Harbor Boulevard
Costa Mesa, CA 92626-1502
(714) 429-5100
General Information

18 Degrees Offered
19 Mission Statement
19 General Description
19 Accreditation/Memberships
19 Faculty
20 Granting of Credit
20 Tuition
20 Refund Policy
21 Enrollment Agreement
21 University Library System
22 General Fees
23 Writing Across the Curriculum
23 Learning Partnerships
23 Safety Program
24 Student Services
25 Career Development and Student Assessment Center
25 National University Institute (NUI)
25 Development and Alumni Relations
26 Commencement Exercises
26 Center for the Adult Learner
26 Undergraduate College at National University (UCNU)
26 Military Community

Defining the Future of Higher Education
for Adult Learners
# Degree Programs Offered at National University

## Undergraduate Degrees

### Associate of Arts
- Bachelor of Arts
  - with Majors in:
    - Behavioral Science
    - English
    - Global Studies (Internet)
    - Interdisciplinary Studies
    - Legal Studies
    - Management
    - Multimedia Arts
    - Multiple Subjects
    - Psychology
  - Bachelor of Business Administration
    - with Concentrations in:
      - Accountancy – CPA/Non CPA
      - Finance
      - Hospitality and Casino Management
      - Human Resource Management
      - Marketing
      - Sports Management
- Bachelor of Science
  - with Majors in:
    - Accountancy
    - Computer Science
    - Criminal Justice Administration
    - Earth Sciences
    - Financial Management
    - Information Systems
      - Database Administration
      - Electronic Business
      - Telecommunication
    - Information Technology
    - Liberal Studies
    - Life Sciences
    - Mathematics
    - Organizational Behavior
    - Software Engineering
  - Bachelor of Science in Nursing
- Bachelor of Arts
  - with Majors in:
    - Business Administration
    - Business Studies
    - Computer Science
    - Criminal Justice Administration
    - Information Technology
    - Legal Studies
    - Mathematics
    - Psychological Research
    - Technology
    - Total Quality Management

## Graduate Degrees

### Executive Master in Business Administration
- Areas of Specialization in:
  - International Business Relations
  - Electronic Business
  - Marketing

### Master of Arts
- Fields of Study in:
  - Counseling Psychology
  - English
  - Human Behavior
  - Human Resources Management
  - Teaching

### Master of Business Administration
- Areas of Specialization in:
  - Accountancy – CPA/Non CPA
  - Electronic Business
  - Financial Management
  - Health Care Administration
  - Human Resources Management
  - International Business
  - Marketing

### Master of Education
- Field of Study in:
  - Crosscultural Teaching

### Master of Fine Arts
- Field of Study in:
  - Film Art Studies

### Master of Forensic Sciences
- Areas of Specialization in:
  - Criminalistics
  - Investigations

### Master of Health Care Administration
- Master of Public Administration
  - Area of Specialization in:
    - Public Finance

### Master of Science
- Fields of Study in:
  - Computer Science
  - Educational Administration
  - Educational Counseling
  - Educational Technology
  - Electronic Business
  - Engineering and Technology
  - Environmental Engineering
  - Finance
  - Industrial Organizational Psychology
  - Information Systems
  - Instructional Technology
  - Organizational Leadership
  - School Psychology
  - Software Engineering
  - Special Education
  - Taxation
  - Technology Management
  - Wireless Communications

## California Credentials

- Preliminary Multiple Subject Teaching Credential with BCLAD Emphasis Option
- Preliminary Single Subject Teaching Credential with BCLAD Emphasis Option
- Fifth Year Professional Clear Credential
- Preliminary Administrative Services Certificate
- Professional Administrative Services Credential
- Professional Administrative Services Internships available in some campuses
- Pupil Personnel Services, School Counseling Specialization Credential
- Pupil Personnel Services, School Psychology Specialization Credential
- Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities
- Professional Level II Education Specialist: Mild/Moderate Disabilities
- Professional Level II Education Specialist: Moderate/Severe Disabilities

### Internships
- Multiple/Single Subject Internships available in some campuses
- Professional Administrative Services Internships available in some campuses
- Education Specialist Internships available in some campuses

### Certificated Programs
- TED Multiple or Single Subject
  - Criminal Justice Administration
  - Educational Technology
  - Electronic Business
  - Finance
- Financial Accounting
- Health Care Administration
- Hospitality and Casino Management
- Human Resources Management
- Information Technology
- International Business
- Marketing
- Sports Management
- Total Quality Management
- Teachers Using Technology

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*denotes program also offered or partially offered online.*

**Note:** Not all online programs or courses are offered in entirety via Internet.

**Note:** Not all courses or programs listed in this catalog are available at every learning facility.

Various undergraduate minors are available in some degree programs. Consult the appropriate school listing for more complete information.
The University is also:
Western Association of Schools and Colleges (WASC).
Accrediting Commission for Senior Colleges and Universities of the
Since 1977, National University has been accredited by the

The University’s central purpose is to promote continuous learning by
offering a diversity of instructional approaches, by encouraging
scholarship, by engaging in collaborative community service, and by
empowering its constituents to become responsible citizens in an
interdependent, pluralistic, global community.

General Description

National University is a not-for-profit institution of higher learning
dedicated to the adult learner. The University is geographically
dispersed, with its academic and administrative center located in La
Jolla, California. This center includes all administrative offices—the
offices of the president, vice presidents, school deans and department
chairs, financial aid, registrar and admissions.

From its administrative center, National University supports a variety
of academic and learning centers, making learning convenient for
National’s students.

Academic Centers
Bakersfield
Costa Mesa
Fresno
Los Angeles
Redding
Sacramento
San Bernardino
San Jose
Spectrum
Stockton

Learning Centers
ASW (Fleet Anti-Submarine Warfare)
Balboa
Carlsbad
Kearny Mesa
La Mesa
MCAS Miramar
MCRD
Mission Valley
Naval Amphibious Base
Naval Station, 32nd Street
Naval Air Station, North Island
Orange
Rancho Bernardo
Sherman Oaks
South Bay/Chula Vista
 Twentynine Palms

Accreditation/Memberships

Since 1977, National University has been accredited by the
Accrediting Commission for Senior Colleges and Universities of the
Western Association of Schools and Colleges (WASC).

The University is also:
• approved by the California Commission on Teacher
  Credentialing (CCTC)
• approved by the Commission on Collegiate Nursing Education
  (CCNE) for the offering of the Bachelor of Science in Nursing
  Program
• accredited by the International Assembly for Collegiate Business
  Education (IACBE) for programs offered by the School of
  Business & Information Management
• A member of the American Association of Colleges for Teacher
  Education (AACTE)
• approved to train veterans under Title 38, U.S. Code (GI Bill)
• approved for student financial aid by the Department of
  Education
• A member of the Council of Colleges of Arts and Sciences
  (CCAS)
• authorized under federal law to enroll non-immigrant alien
  students
• A member of the American Association of Intensive English
  Programs (AAIEP) through its American Language and
  Intercultural Studies program
• A participant in the Servicemembers Opportunity College
  network (SOC)
• approved for Army, Air Force, Coast Guard, Marine Corps, Navy
  and U.S. government tuition assistance. Students in San Diego
  who qualify may enroll in the Army or Air Force ROTC cross-
  enrollment programs.

Faculty

There are four tiers of faculty at National University—full-time,
associate, core adjunct and adjunct.

Full-time faculty are members of the University whose primary
responsibilities include teaching, scholarship, service, intellectual
coordination with the part-time faculty, professional development,
student advising and participation in the University’s governance.

Associate faculty are skilled teachers who make a half-time
commitment to the University faculty over the course of the year.
They are contracted to teach a designated number of courses per
year, advise students on course, program, or career-related issues,
participate in departmental, school and University activities and
engage in scholarship relevant to their teaching.

Core adjunct faculty are skilled teachers whose principal
professional commitments are elsewhere in their fields, but who are
contracted to teach a designated number of courses per year, advise
students on course-related topics and maintain currency in their
professional and disciplinary fields.

Adjunct faculty teach one course at a time, advise students on course-
related topics and participate in faculty development activities without a
need for deeper commitment to other aspects of University life.

All levels of faculty hold advanced degrees in their areas of expertise
and are respected professionals with many years of career experience.
Learning is facilitated through lectures, outside reading, class
discussions, case studies and research projects relating to problems
within students’ interests.

The extensive knowledge of adult learners and the diversity of their
backgrounds add a level of richness to the group-learning experience.
The average age of students attending the University is 31.

Granting of Credit

The academic year is divided into four 12-week quarters, each
comprised of three one-month classes. (Refer to the Financial Aid
section for a definition of the academic year used for financial aid
calculations.) Students may enroll in classes in most programs any
month of the year. National University awards credit in quarter units.
The University has adopted a policy regarding the amount of credit
granted for courses, effective July 1, 2000, that applies to students
who enroll or re-enroll after June 30, 2000. Under the current policy,
4.5 units of credit are awarded for most courses. Before July 1, 2000,
5 quarter units were awarded for most courses.
General Information

The University adopted the current policy as a result of its continuous evaluation of courses and programs required by the University’s accrediting agency to ensure the highest standards of academic quality. As part of this evaluation process, the University formed a Task Force on the Systematic Review of Course Quality. After careful study, the Task Force recommended the new policy, which was adopted by the Board of Trustees. The purpose of the new policy is to make National University course credits equivalent to the credits awarded by institutions that use a semester system. A unit of credit is based upon the hours of classroom instruction for each course and the hours that a typical student reasonably should expect to devote preparing for each hour of class. An undergraduate course requires 45 hours of classroom instruction and an undergraduate student generally is expected to devote two hours or more in outside preparation for each hour of class. A graduate course requires 40 hours of classroom instruction and a graduate student generally is expected to devote three hours or more in outside preparation for each hour of class. Undergraduate courses typically are scheduled for a one-month period, generally for 4.5 hours on two weekdays and 4.5 hours on two Saturdays during the month. Graduate courses typically are scheduled for a one-month period, generally 4.5 hours two weekday nights with a 4.5-hour session on one Saturday.

The policy typically will not apply to existing students whose academic programs will continue to be governed by the General Catalog in effect at the time of their enrollment. However, the new policy will apply to existing students if they: (1) enrolled in the University before June 30, 2000, but elect to change their academic program after December 31, 2000; (2) elect to change their academic program to one that became effective with General Catalog #63; (3) did not complete at least one class before June 30, 2000; or (4) did not complete at least one course within 12 months before June 30, 2000, or do not complete at least one course during each 12-month period after June 30, 2000. The academic program for students who enroll or re-enroll after June 30, 2000, will be governed by the General Catalog in effect at that time.

Under the current policy, undergraduate students and students in programs such as the Fifth Year Credential program may be required to take an additional course(s) to complete their academic program. However, graduate students generally will not be required to take any additional courses as a result of the new policy. The University reserves its right and its obligation to make changes in its curriculum requirements and award of credit in its sole discretion. The University is not responsible for any delay or additional expense or time that students may incur to complete their academic program as a result of this policy.

Tuition

Tuition rates in effect as of September 1, 2003:

<table>
<thead>
<tr>
<th>Course Level</th>
<th>4.5 Qtr. Unit</th>
<th>3 Qtr. Unit</th>
<th>1.5 Qtr. Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>100, 200, 300 &amp; 400</td>
<td>$950</td>
<td>$633</td>
<td>$317</td>
</tr>
<tr>
<td>500 (Undergrad)*</td>
<td>$950</td>
<td>$633</td>
<td>$317</td>
</tr>
<tr>
<td>500 (Graduate)*</td>
<td>$1070</td>
<td>$713</td>
<td>$357</td>
</tr>
<tr>
<td>600 &amp; 700</td>
<td>$1070</td>
<td>$713</td>
<td>$357</td>
</tr>
</tbody>
</table>

* Tuition for 500-level courses is charged according to students’ degree programs.

Tuition is due and payable prior to the first class session of each course. Tuition not fully paid when due is subject to a late fee.

If a tuition payment check is returned due to insufficient funds, the University reserves the right to drop all current and future classes for that student. Students will be notified of this action and assessed a return check charge. The University may require students who have written multiple non-sufficient fund checks to make all future payments by cashier’s check, cash, or money order.

The University reserves the right to modify tuition at any time. Reduced tuition is available at designated military facilities for eligible students.

Refund Policy

Students are accepted and registered for classes with the understanding that they will remain for the entire course. Faculty contracts and the commitment of space and other University resources are made on that assumption, creating obligations that are not relieved when students withdraw. National University’s refund policy is designed so students who withdraw from class share in the costs incurred. Students must inform an admissions advisor immediately of their intent to withdraw from a course. The effective date of withdrawal is the student’s last date of actual attendance.

If a continuing student does not complete a course, a tuition refund is made according to the following schedule:

### Continuing Student

<table>
<thead>
<tr>
<th>Refunds</th>
<th>Percentage* of Sessions Remaining</th>
<th>Class Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>75 to 100%</td>
<td>Before 3rd session</td>
</tr>
<tr>
<td>50%</td>
<td>67 to 74%</td>
<td>After 3rd session but before 4th session</td>
</tr>
<tr>
<td>0%</td>
<td>0 to 66%</td>
<td>After 4th session</td>
</tr>
</tbody>
</table>

* Percentage is calculated from the effective date of withdrawal and is rounded to the nearest whole percent.

Students must have a credit balance on their account to receive a refund. The University does not disburse refunds to students automatically. Students must submit a written request to the nearest Student Accounts Office. Most refunds are processed and mailed within 10 working days from the receipt of the request depending on the verification of funds. All refunds are mailed to the student’s home address. Students must make sure that the address on file is correct. Refund request forms are available at all student accounts campuses.

Financial Aid Refund Policy

As part of the Higher Education Amendments of 1998, Congress passed new provisions regarding refund policies and procedures for students who have received Federal Student Assistance and are considered withdrawn from school. Based on National University policies, which are made in accordance with Federal regulations, a student is considered “withdrawn” if not in attendance for 75 consecutive days. Given National University’s model of one course per month, this would equate to a three-month break in attendance.

Effective October 7, 2000, this new refund policy governs all Federal grant and loan programs: Federal Pell Grant, Federal SEOG, Federal Perkins Loan and all Federal Stafford/Direct Loans (subsidized and unsubsidized).

This Federal regulation now assumes that awards of Federal Student Aid funds are earned in proportion to the number of days attended for the period funded. If a student is considered withdrawn from the University, a calculation must be performed according to a specific formula that identifies the total scheduled financial assistance the student earned and is therefore entitled to receive. If more financial aid is received (by either the student or by the University on the
student’s behalf) than is earned, the unearned funds must be returned to the Department of Education and/or appropriate lender. If, on the other hand, the student receives (or the University receives on the student’s behalf) less financial aid than the amount earned, the student may be able to receive those additional funds.

The portion of Federal grants and loans that a student is entitled to receive is calculated on a percentage basis. The percentage is determined by comparing the total number of days in the specified payment period to the number of days completed before withdrawing from the University.

For example, if you complete 30% of the payment period, you earn 30% of the financial aid you were originally scheduled to receive. This means that 70% of the scheduled awards you received at the beginning of the payment period becomes unearned and must be returned.

In general, loan disbursements and grants cover a specific period of time and number of units called the payment period. Once more than 60% of the payment period has been completed, all (100%) of the financial aid award received for that period is considered earned. Important Note: If a student is considered withdrawn from the University (officially or unofficially) before completing 60% of a payment period, the student may have to repay unearned Federal monies that were already disbursed at the beginning of the payment period.

The withdrawal date will be determined as either:
• The effective date of withdrawal from the last course attempted, as documented by the University or,
• The last date of attendance at an academically related activity, as documented by the University.

If it is determined that the student received excess funds that must be returned, the University shares the responsibility of returning those excess funds. The University’s portion of the excess funds to be returned is equal to the lesser of:
• The entire amount of the excess funds, or
• The total in tuition and fee charges multiplied by the percentage of unearned aid received.

If the refund calculation determines that the University is not required to return all of the excess funds, then the student must return the remaining amount. Any loan funds that a student is required to return must be repaid according to the terms of the promissory note. If any grant funds must be returned, the law provides that the amount that the student must repay is to be reduced by 50%. This means that a student who has received too much in grant funds will only be required to return half of the amount considered in excess.

If there is a return of any unearned financial aid by the University, the student will be billed accordingly. In such cases, the student will be required to make arrangements with the Business Office to pay the amount refunded to the Department of Education or lender within 45 days of the date of the University’s notification. In addition, the student will not be eligible for any further Federal financial aid until the balance is paid to the Business Office.

Online Course Refund Policy

Students are accepted and registered for online classes with the understanding that they will remain for the entire course. Faculty contracts and the commitment of other University resources are made on that assumption, creating obligations that are not relieved when students withdraw. National University’s refund policy for online students is designed such that students who withdraw from a course share in the cost incurred.

Refund calculations are based upon the date a student informs an admissions advisor of their intent to withdraw. Students may contact an admissions advisor at (858) 642-8210; 1 (800) NAT-UNIV, ext. 8210, or e-mail at admissions@nu.edu.

Lack of participation in the class does not qualify a student for a refund. Students must inform National University of their intent to withdraw from a course.

Tuition refunds are determined according to the following schedule:

<table>
<thead>
<tr>
<th>Refund Percentage</th>
<th>Course Log-in Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>In order to receive a full tuition refund, students must withdraw prior to the 2nd Monday of class start (prior to 5 p.m. Pacific Time). Any student who has logged into class after this date and time is ineligible for a full refund.</td>
</tr>
<tr>
<td>50%</td>
<td>Students will receive a 50% tuition refund if they notify an admissions advisor of their intent to withdraw prior to the 2nd Wednesday of class start (5 p.m. Pacific Time).</td>
</tr>
<tr>
<td>0%</td>
<td>Students who have not notified an admissions advisor of their intent to withdraw prior to the 2nd Wednesday of class start (5 p.m. Pacific Time) will be responsible for the full cost of tuition.</td>
</tr>
</tbody>
</table>

Note: Federal Student Aid recipients will be considered officially registered and eligible for disbursement of student aid funds on the second Tuesday following class start provided they have participated with a minimum log-in time of 10 minutes.

Enrollment Agreement

Students must sign an enrollment agreement before beginning classes at National University. The agreement includes topics pertaining to tuition and fees, billing, attendance, financial assistance, payment options and other matters of enrollment. Contact an admissions advisor for further information.

Payments and Release of Records

The University grants degrees and releases transcripts only after a student satisfies all financial obligations to the University. All records and services are withheld from students who have any outstanding financial obligations to the University or who have defaulted on a Title IV loan at the University.

University Library System

The Central Library, located in San Diego, houses:

• A Center for Learning Technologies for creation of multimedia learning and presentation packages
• An Information Competency Center with 30 Web-wired work stations for active learning of information technologies
• The Curriculum Resource Center, a state-of-the-art K-12 classroom providing access to resource materials and active instruction in learning technologies
• A new Career/Placement Center and Testing Center

The building is also the administrative center for the University’s virtual library, providing remote Web-based access to library services, materials, collections and electronic information.

The National University Library System (NULS) is comprised of the Central Library in San Diego and Library Information Centers at all learning centers throughout California. LICs contain core reference
General Information

General Fees

Fees are non-refundable.

All records and services are withheld from students who have any outstanding financial obligations to the University or have defaulted on a Title IV loan at the University.

<table>
<thead>
<tr>
<th>Fee</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$60</td>
</tr>
<tr>
<td>Re-enrollment Fee</td>
<td>$60</td>
</tr>
<tr>
<td>Graduation Processing Fee</td>
<td>$100</td>
</tr>
<tr>
<td>Transcript Fee</td>
<td>$4</td>
</tr>
<tr>
<td>Returned Check Charge</td>
<td>$20</td>
</tr>
<tr>
<td>Reinstatement Fee</td>
<td>$100</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>$25</td>
</tr>
<tr>
<td>Non-Degree Enrollment Fee</td>
<td>$25</td>
</tr>
<tr>
<td>Credit by Examination Fee</td>
<td>$100</td>
</tr>
<tr>
<td>Challenge Examinations Fee</td>
<td>$50</td>
</tr>
<tr>
<td>BSN Testing Fee</td>
<td>$200</td>
</tr>
<tr>
<td>International Application Fee</td>
<td>$100</td>
</tr>
<tr>
<td>AIME Entrance Fee</td>
<td>$295</td>
</tr>
<tr>
<td>E-Portfolio Fee</td>
<td>$45</td>
</tr>
</tbody>
</table>

Library Resources

All of the library’s electronic resources are accessible 24 hours a day, 7 days a week through the library’s home page at www.nu.edu/library. Visitors can directly access the Library Online Catalog (Libros) and search the library’s collections of 200,000 volumes, 2,850 serial titles, 5,000 audio-visual titles, more than 2 million microforms and ERIC documents and 38 online databases. New Web-based resources include netLibrary, a collection of more than 31,000 electronic books that can be browsed and checked out online, more than 350 e-journals and millions of business and government documents. General reference books such as Encyclopedia Britannica and the Oxford English Dictionary are also available online.

The library home page serves as the entry point to its Web-based full-text and citation databases. By using “Article Databases,” students can access the databases by subject category, vendor name, or journal title.

Resources

- Business resources include: ABIInform, Emerald, Business and Company Resource Center, Mergent FISonline, STAT-USA and General Business
- Educational databases include: ERIC, Education Complete and E* Subscribe.
- Humanities resources include: Literature Resource Center, Biography Index, Biography Resource Center, Project MUSE, Grove Dictionary of Art.
- Specialized databases include: Criminal Justice Abstracts, CINAHL (Nursing), Dissertations Abstracts, HR Research Network and PsychInfo.

Library Services

The library system provides both Web-based and traditional services.

Electronic services include:
- Journal-Direct, a journal article request service
- Books-Direct, a book request service
- General reference services
- Circulation services
  - Video booking services for faculty
- Library guides and tutorials
- Inter/Intra Library Loan

The libraries provide general reference services, both onsite and electronically through e-mail at refdesk@nu.edu. Circulation services are provided onsite and through e-mail at circdesk@nu.edu.

Formal library instruction is available in Libros, Electronic Resources, Term Paper Clinic and Internet Research, as well as general orientation and advanced course-related instruction. Both group and one-on-one sessions may be scheduled. Library Guides and tutorials are also available online. Traditional Inter/Intra Library Loan using print or electronic forms may be used to request items.

Faculty may place class materials on reserve electronically through the Online Reading Room, or in print format. Faculty may also
request a personalized alert service to current articles through the Journal Awareness Service.

The Library’s extensive media collection may be accessed through Libros, the online catalog. Faculty may browse the catalog and reserve their selections using a form that can be downloaded from the Library’s Web site or by e-mail at videobooking@nu.edu. Electronic confirmation is sent to the faculty within 24 hours. The requested materials are then sent to the appropriate classroom center.

Writing Across the Curriculum

Writing Across the Curriculum is a University-wide program designed to enhance the development of writing and critical thinking skills in students throughout their studies at National University.

Good writing skills are in demand nearly every profession and the attainment of such skills gives students a competitive edge in job searches and career advancement. The University is dedicated to providing students and faculty with a full range of conceptual material, instructional resources and support systems. The goals of the Writing Across the Curriculum program are:

- To make writing and the complementary skills of reading, critical thinking and research a regular part of coursework at National University
- To facilitate the acquisition of writing and communication skills that are vital to personal and professional success
- To distinguish graduates of National University in the eyes of employers and the general public through their professional and technical excellence in language and communication skills.

Writing Across the Curriculum promotes writing and reading enhancement throughout all schools of study through a variety of publications and activities, including:

- Writing intensive courses
- Workshops for faculty
- Writing centers
- Professional forums for self-expression, such as The Gnu, a student literary journal and WHACK, a faculty newsletter

Upon registration, students are asked to purchase The Little Brown Essential Handbook for Writers (Longman, Pub). This book serves as the official National University writing guide and reference text and it is used by instructors from all disciplines as a reference for their students.

Learning Partnerships

The Learning Partnerships program was established in January 1995 to create long-term educational relationships that meet the emerging business needs of the 21st century. The goal of the program is to develop new approaches to the development, customization and delivery of educational services and products to meet the demands of a rapidly changing workplace. In keeping with that aim, Learning Partnerships offers organizational development and workplace solutions tailored to the diverse workforce, including services in Spanish and English.

Learning Partnerships consults with individual organizations to provide solutions that satisfy their unique needs and help them realize their goals. Whether the training is performed onsite or conducted at one of NU’s academic centers, the results are a more highly tuned workforce ready to meet continuous challenges.

Public Programs

In addition to certificate programs and partnerships, the Division of Marketing and Educational Services also offers non-credit courses of interest to the general business public. These public programs are presented through a variety of venues, from live seminars and workshops at the University’s regional academic centers to distance and online learning opportunities via video conferencing, Internet and CD-ROM delivery systems.

Conferences and Special Events

Providing exciting conferences and events on a variety of current and high-technology topics, the Division of Marketing and Educational Services goes beyond updating participants on all the latest technology, theories and practices. Connecting business, education and technology, these conferences and events provide the link that facilitates benchmarking and crossover application in a variety of professions. Pointing out applications for immediate use, these events are an invaluable resource for innovative and creative ideas that work in the real world.

Safety Program

National University is concerned about the safety of its students and employees and has instituted a University Safety Policy and an Injury and Illness Prevention Program. Students play an important role in ensuring that their classroom facilities are safe. Students should:

- Review fire, medical and earthquake emergency procedures posted in each classroom and be prepared to respond accordingly
- Review emergency egress routes and know the location of fire extinguishers (posted in each classroom)
- Watch for any hazardous conditions and report them immediately to the center assistant

Academic Center Security

In general, National University’s Academic/Learning Centers are situated in highly populated urban areas. As such, they are subject to the same security problems as other businesses in the area. To help prevent crime, students should:

- Look in the same security problems as other businesses in the area.
- Return to their cars in the company of other students when they leave a classroom. If no other students are going in that direction, students should request that a security guard or the center assistant accompany them
- Take items of value with them when they leave a classroom, unless they are certain that the classroom will be locked or monitored while they are away
- Report anything that appears to be out of the ordinary (e.g., a stranger lingering in the area) immediately to the center assistant

Safety procedures are posted at learning centers and labs.

Students should never single-handedly try to stop a criminal in the act. Students should call for security or report the act by calling “911.” (Note: From a University phone, students should first dial “9” to get an outside line and then dial “911.”) When the emergency operator answers, students should give the operator their direct dial number, name and specific location, including building and room number. (The location displayed on the 911 emergency operator’s
General Information

console will be that of the central telephone switch unit, Building 4141, rather than that of the caller.) If time permits, students should also notify the University operator by dialing “O”, since it is possible the 911 emergency operator may try to contact them through the main University number.

If students are involved in or aware of any event that requires the attention of University administration, they should complete an “Incident Report,” available through the center assistant, and follow the instructions.

Pursuant to the Campus Security Act of 1990, the University publishes the Annual Report on Campus Security that discloses information about campus safety policies, procedures and crime statistics. This report is available upon request to all current students and prospective students at each NU campus.

Student Services

National University provides a number of services to help students attain their educational goals. In addition to the Office of Academic Affairs, several offices of the University join together to provide services for the academic, economic and personal needs of enrolled students. Student services include student advising and scheduling, records evaluation, veterans assistance, financial aid and other services. Additionally, the library, alumni association, continuing education office and student accounts office are available to help students.

Student Service Center

The Student Service Center is a focal point for all National University students by assessing students’ requests and providing answers and solutions. Students can call a 24-hour help line at (619) 563-2655 or 1-800-NAT-UNIV, ext. 7200, to identify the best resource for University services. In Mission Valley, the center provides student workstations, Internet terminals and career resources. Online requests can be sent to advisor@nu.edu.

Faculty Advising

Upon admission to the University, students are assigned faculty academic advisors to assist them in making appropriate decisions about educational and career-related issues. Faculty academic advisors give students the benefit of experience in professional practice and insight gathered from years of formal study in higher education. Students should direct requests for information about curriculum content, course requirements, proficiency examinations and program goals to their faculty advisor as well. Faculty advisors help students meet University academic regulations and standards.

Computer-Based Information Systems Research and Development Center

The National University Management Information Systems department operates an Ethernet-connected IBM 9672-R16 Enterprise Server supporting National University administrative functions with online, real-time access to student information. Through network-connected personal computers, the facility provides up-to-date student, faculty and class information to staff members, administration and students at all the University’s campuses.

Students can access records, class schedules, textbook requirements and add and drop courses by visiting the NU home page at www.nu.edu and clicking the “Student Services” or “MY NU” link, or by visiting the mvsu.nu.edu site directly.

National Network Newspaper

News and feature stories about alumni, students, faculty and University events are the focus of the National Network. Published twice a year by the Public Relations department, the Network is distributed to more than 98,268 alumni and students. For more information or to submit story ideas, contact the Public Relations office at (858) 642-8111.

Internet Student Access

All National University students are provided with access to the Internet – the global “network of computer networks.” This access excludes telephone charges. Students can connect to the Internet from any National University personal computer in one of the University’s networked labs, or from their home or workplace using third-party network resources. Since the Internet has rapidly evolved into a powerful, user-friendly information source, National’s programs and courses make frequent use of Internet resources, allowing students to learn the skills required to gain information through such electronic media.

The University provides help for students who want to become proficient in the use of the Internet. Students can find online assistance on the University Web site under “Student Online Manuals,” or they can call the library to sign up for classes.

Web Site

The National University Web site contains a wealth of information about the University and its many programs. The home page includes online student help manuals, links to University based organizations, access to library services and many other features. New students, currently enrolled students, recent graduates, or those interested in learning more about the University may check out the University’s Web site at: www.nu.edu.

Writing Centers

National University students have the opportunity to work one-on-one with writing instructors to develop their writing and critical thinking skills through onsite and online writing centers. An integral part of the Writing Across the Curriculum Program, the writing centers welcome the opportunity to help students at all levels to improve—from outlining a first year composition essay to drafting a graduate level research paper. Writing centers are open during convenient hours throughout the week (check the schedule of your local center for exact times); sessions are free of charge and confidential. Students can consult with the writing centers in person, by phone, fax, or e-mail; appointments are recommended for face-to-face consultations. Instructors may refer students to the center as well. The writing center staff, comprised of experienced writing instructors and well-trained graduate students, will not edit student work, but they are eager to read students’ drafts and to offer strategies for improving their writing.

Bookstore

The University contracts with MBS Direct for the sale and buy-back of textbooks. Textbooks are available for sale two weeks prior to the first night of classes. The cost of books varies with each course. Students must purchase all books and supplies necessary for the course in which they are enrolled. Textbooks may be purchased through a secure server online – www.mbsdirect.net/national (credit card), by phone – (800) 325-3252 (credit card or personal check) or by fax –
capacity building for community enterprises and business for social entrepreneurship refers to citizenship leadership development and through civic engagement and applied social research. Civic Institute for Community Research and Civic Entrepreneurship.

In 1997, National University President Jerry C. Lee established the President’s Commission on Community. A major outcome of the Commission was to envision the University’s collaborative future as a full community partner. Pursuing this new core value also accounted for the creation of a university-wide mechanism that would serve as an institutional point of contact to respond, initiate and facilitate community-based research and community economic development for public benefit. Today that academically oriented and practitioner-based vehicle is called the National University Institute for Community Research and Civic Entrepreneurship.

In April 2003 the online library membership program was launched. Membership to the online library allows alumni to access netLibrary (a collection of 34,000+ full-text e-books) and Ebsco (online journal articles). For more information about this service, please visit the alumni Web site at www.nu.edu/alumni.
General Information

Career Services
National University has established partnerships with professional career service providers which can facilitate employment searches. The Web site also provides links to hot job search sites. The Career Services Center provides important career information as well as guidance on resume building, interview skills and other job search guides. Students and alumni can take advantage of free career services by registering online at www.alumniconnections.com/olc/pub/NAT. Students and alumni can also contact the National University Career and Student Assessment Services Center at (800) 682-2237 ext. 7950 or e-mail careerservices@nu.edu.

Commencement Exercises
National University holds annual commencement exercises in San Diego and Sacramento. The Office of Graduation, in coordination with the Office of Development and Alumni Relations, distributes announcements, caps and gowns. Detailed information with instructions regarding commencement exercises is mailed to eligible students prior to each ceremony date.

Commencement dates for 2004 are May 9th for San Diego and June 13 for Sacramento.

Center for the Adult Learner
Mission Statement
The mission of the Center is to develop, implement, and disseminate a pedagogical framework which addresses and advances, through applied research, knowledge of the adult learner, best practices for teaching them, and development of faculty to attain those practices. The Center will accomplish its mission in a manner consistent with the University’s ongoing commitment to high quality, relevant and cutting edge education for adults. The Center has developed four distinct areas of emphasis: 1) Research; 2) Conferences/Journals; 3) Teaching and Faculty development; 4) Career placement. An interdisciplinary course relating to adult learning is described below and is appropriate for professionals in education, corporate training, and governmental agencies.

Course Offering:
CAL 600 Introduction to Adult Learning
This course examines the fundamentals of andragogy, a theory of learning and methodological approach which is applicable to adults and their idiosyncratic lifestyles within a societal context ever more culturally and linguistically diverse. Graduate students analyze theory, research, and practice as a basis for improving the learning environments of formal and non-formal adult education programs.

Undergraduate College at National University
Goal Statement
The goal of the Undergraduate College at National University is to promote individual student growth in a stimulating educational environment, one which fosters a desire for lifelong learning. The Undergraduate College is designed for recent high school graduates and offers small classes, close faculty advisement and co-curricular activities.

Degree Offerings
The Bachelor of Arts in Interdisciplinary Studies (BAIS) and the Bachelor of Business Administration (BBA) are the two degree programs initially offered in San Diego only, at Spectrum Center.

Class Sessions
4.5 quarter unit classes meet two days per week for a total of eight sessions. During week one, classes will be from 9 a.m.-3 p.m. (50 minute hours with 30 minute lunch break). During each subsequent week, classes will be from 9-2:30 p.m. (50 minute hours with 30 minute lunch break) for a total of 45 class hours.

Military Community
National University has six convenient locations for the military community in San Diego County, and one in San Bernardino County. Learning centers are located at Naval Station San Diego, Anti-Submarine Warfare Training Center San Diego, Naval Amphibious Base Coronado, Naval Air Station North Island, Marine Corps Recruit Depot San Diego, Marine Corps Air Station Miramar, and Marine Corps Air Ground Combat Center Twentynine Palms. National University also has two admissions offices at Naval Hospital and Naval Submarine Base in San Diego.

National University offers reduced tuition for classes on base for qualified students, including: active duty members, their spouses and dependents, Department of Defense employees, military retirees and selective military reserve members. The University accepts DANTES tests offered through the military voluntary education program. National University is a member of the Servicemembers Opportunity Colleges (SOC) network, and participates in the Military Installation Voluntary Education Review (MIVER).
Continuing Education

28 Defining the Future of Higher Education
for Adult Learners

28 The Continuing Education Course Numbering System
28 Grading System
29 Continuing Education Course Offerings
29 English Language Programs (ELP)
30 Continuing Education Course Descriptions

Defining the Future of Higher Education
for Adult Learners
Continuing Education

The Department of Continuing Education meets the needs of National University’s diverse community of adult learners through convenient and contemporary offerings under continuing education, certificate and professional programs and English language programs (ELP), as well as partnerships.

Continuing Education provides a variety of innovative services to enable adults to compete in today’s fast-paced business world. The courses facilitate professional and organizational development, giving adults the opportunity to meet the ongoing challenges of changing careers by implementing new technologies and updating crucial skills.

National University is a member of the University Continuing Education Association (UCEA), a nationwide professional organization comprised of prominent colleges and universities in the country. In addition, many of these programs are approved for continuing education units (CEU’s) for various professional organizations.

Continuing Education & English Language Programs Department
NATIONAL UNIVERSITY
4121 Camino Del Rio South
San Diego, CA 92108
Phone: 1 (800) NAT-UNIV, ext. 7265
(619) 563-7265
Fax: (619) 563-7298
Web: www.nu.edu/conted

Continuing Education Course Numbering System

Credit Courses
Academic credit is granted for a limited number of programs. An “X” following the course number indicates Continuing Education credit. National University operates on a quarter system and all academic credit is given in quarter units. Students who plan to apply credits earned through Continuing Education to an academic degree program should consult the appropriate institution and academic department to ascertain the applicability of units toward their proposed course of study.

Course Levels and Numbers
The course numbering system described below is effective only for those Continuing Education courses offered after 1991:

001X-099X: Course for which lower division credit may be allowed toward degree requirements.
100X-199X: Course for which upper division credit may be allowed toward degree requirements.
200X-299X: Course for which graduate credit may be allowed toward degree requirements.
300X-399X: Credit course for teachers designed to serve the need for professional upgrading, salary advancement and in-service education requirements.
400X-499X: Course that meets requirements for professional level and certificate programs or provides opportunities for professionals and others from the general public to enhance their knowledge in various academic fields.

Non-Credit Courses
There are two categories of non-credit courses through Continuing Education.

800X-899X: These courses offer Continuing Education Units (CEU’s), a nationally recognized measurement of a non-credit continuing education learning experience. Professional groups, employers, licensing agencies and others who routinely evaluate individual accomplishments and training generally accept this unit of measurement. One CEU is awarded for every 10 hours of participation.

900X-999X: These courses carry neither academic credit nor CEU’s. They are offered in response to the growing need for quality educational opportunities for professional, career, personal growth or general cultural interest and knowledge.

Grading System

<table>
<thead>
<tr>
<th>Grade</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Exceptional</td>
</tr>
<tr>
<td>B</td>
<td>Very Good</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>D</td>
<td>Marginal</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory/No Credit</td>
</tr>
</tbody>
</table>

Financial Aid

Continuing Education students are not eligible to receive federal financial aid, although alternative funding options are available. Students planning to enroll in courses may apply for an IT Skills Loan, Key Career Loan, or Sallie Mae Career Loan. These agencies are not affiliated with Continuing Education or National University.

For more information, please call (800) 628-8648, ext. 7265.

Refund/Withdrawal Requests

Students may withdraw from a course at anytime. To secure a refund, please contact the Office of Continuing Education. In all cases in which refunds are awarded, the cost of books and materials will be deducted. Non-attendance or notifying an instructor does not constitute officially dropping or withdrawing from a course.

The refund policy is as follows:

<table>
<thead>
<tr>
<th>Refund</th>
<th>Percentage of Sessions Remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>75-100%</td>
</tr>
<tr>
<td>50%</td>
<td>67-74%</td>
</tr>
<tr>
<td>No Refund</td>
<td>0-66%</td>
</tr>
</tbody>
</table>

Corporate Training

Corporate training is available for businesses or school districts through Continuing Education. Classes can be held at a place of business or at a National University learning center. Each program can be tailored to target an organization’s unique challenges and in-house training programs can be customized to any specifications necessary.

Through these courses, National University can provide the services to maximize training budgets. Discounts are available for three or more students from the same organization.
**Payment Options**

Payment can be made by either telephone, fax, or in person. Checks and any one of the following credit cards are accepted for your convenience: American Express, Discover, Visa, or MasterCard. Company invoicing is also available. Payment for Continuing Education courses is required before attending class.

**Veterans’ Information**

Students wishing to apply for programs administered by the Department of Veterans Affairs can obtain information on how to apply for their benefits by calling or visiting the Veterans’ Affairs Office located at 4121 Camino del Rio South, San Diego, (619) 563-7270, or (800) 628-8648, ext. 7270.

**Continuing Education Course Offerings**

**Courses for Educators**

- **ED 342X** Vocational Education Level I: The Instructional Process in Vocational Education and Techniques of Teaching – 90 hours
- **ED 343X** Vocational Education Level II: Principles and Practices of Vocational Education – 90 hours
- **TED 328X** Spanish as a Professional Tool for Teachers 1A – 45 hours
- **TED 329X** Spanish as a Professional Tool for Teachers 1B – 45 hours

**Preparatory Courses**

- **Prerequisite: TED 621X**
- **ED 820X** Reading Instruction Competence Assessment (RICA) Preparatory Course – 10 hours
- **ED 809X** Multiple Subject Assessment Test (MSAT) Preparatory Course – 20 hours
- **ED 938X** U.S. Constitution Preparatory Course and Examination – 10 hours

**Information Technology Courses**

**Certification Preparatory Courses**

- **CS 861X** A+ Certification Preparatory Course – 50 hours
- **PM 800X** Project Management Professional Preparatory Certification Course – 40 hours

Microsoft Certified Systems Engineer (MCSE) Windows 2000

This program covers the knowledge and skills required to perform the tasks in a single-domain Microsoft Windows 2000-based network. This is a seven- to eight-month program, one course per month. Prerequisite: A+ Certification recommended, but not required.

- **MS 816X** Networking Systems & Operating Essentials – 24 hours
- **MS 807X** Installing, Configuring and Administering Microsoft Windows 2000 Professional – 40 hours
- **MS 808X** Installing, Configuring and Administering Microsoft Windows 2000 Server – 40 hours
- **MS 809X** Implementing & Administering a Microsoft Windows 2000 Network Infrastructure – 40 hours
- **MS 810X** Implementing & Administering Microsoft Windows 2000 Directory Services Infrastructure – 40 hours
- **MS 811X** Designing a Microsoft Windows 2000 Directory Services Infrastructure – 24 hours
- **MS 815X** Designing a Microsoft Windows 2000 Network Infrastructure – 40 hours
- **MS 812X** Designing a Secure Microsoft Windows 2000 Network – 40 hours

**Oracle9i Database Administrator Preparatory Certification Program**

Oracle Database Administration is the premiere database management software used by more businesses than any other database system. The program consists of four courses in a one-course-per-month format.

- **ORC 850X** Introduction to Oracle9i: SQL
- **ORC 851X** Oracle9i Database Administration
- **ORC 852X** Oracle9i Back-Up and Recovery
- **ORC 853X** Oracle9i Performance Tuning

**English Language Programs (ELP)**

**Language Proficiency**

Students can complete the University’s language proficiency requirement through the English Language Programs University Preparation program in San Diego. International students who need English proficiency are tested and placed in the appropriate class level. English language classes follow the University calendar and provide 100 hours of instruction per month. At the end of each month, students are evaluated for advancement. Students in the advanced level can apply for early admission to academic courses.

**Academic English**

The University Preparation program is a very intensive program designed for high school graduates, university students or professionals who plan to attend National University or another U.S. college or university and/or want to improve their academic skills or professional career advancement.

This program follows a four-week format and provides 100 hours of instruction per month. Courses range from beginner through advanced levels and each level can be completed in two months. Classes are offered at all levels every month.

Graduation from the last level fulfills the National University language proficiency requirement so the English as a Foreign Language (TOEFL) examination is not required.

Interested students should apply directly to 4121 Camino del Rio South, San Diego, CA 92108.

ELP offers programs for students who want to study the English language but do not plan to enroll in a Bachelor or Master degree program at National University.

**English Communication**

This program is designed for individuals who want to improve their English communication skills for purposes of professional advancement or simply for personal enjoyment.

The program provides 100 hours of instruction per month and develops all four language skills: reading, writing, listening and speaking, with emphasis on communication.

Classes are offered at all levels every month and follow a four-week format.
English Language Programs

Beginning ESL
Intermediate
Advanced
Academic English
Accent Reduction
English Communication

English language levels consist of core courses increasing in difficulty and complexity from beginning to more advanced levels.

Listening
Non-native English speakers in this course improve their listening and note-taking skills by discussing tapes and lectures. This gives students many opportunities to interact with each other and with the instructor.

Speaking
Students gain proficiency in oral communication through group discussions and individual presentations, and by discussing personal as well as academic topics. In the more advanced levels, students give short speeches and participate in group discussions. Small groups allow students to interact with each other and with the instructor.

Grammar and Writing
The rules of English grammar are studied and used in context at the different levels. The focus is on applying grammar structures to oral and written communication.

Writing and Editing
Students learn writing skills, from developing basic paragraphs, summaries and outlines, to composing full-length essays. Activities include academic writing, informal/free writing and grammar-based writing. The class meets for 3 hours each week.

Reading
Students improve their reading ability by learning and practicing key reading comprehension and vocabulary skills.

Vocabulary Development
Students expand their vocabulary through various types of activities as well as presentation of roots, suffixes and affixes.

Accent Reduction Workshop
The course gives students the tools and practice they need to improve their pronunciation of American English. The students work intensively on correct vowel and consonant formation, word stress, sentence stress, intonation and rhythm. This is done by evaluating individual student needs and addressing problem areas.

In addition, each course level offers a variety of enhancement courses such as idiomatic expressions and cinema, writing research papers and newsletters, conducting academic research, world celebrations, American culture, the American legal system and U.S. culture and history. These controversial topics are just a sample of the complementary courses each level in the program must complete in addition to the core classes.

TESOL Certificate Program
National University’s Certificate in Teaching English to Speakers of Other Languages (TESOL) is a comprehensive series of five content courses that culminate in a practicum project designed to offer maximum teaching experience to participants. The principal goal of the certificate is to develop participants’ teaching skills through hands-on practice and to give them the knowledge and confidence to teach ESL at any level.

Before entering a live ESL classroom to work alongside an experienced instructor, students will study a variety of courses, including:

- TSL 400X Theories and Methods of Language Teaching and Acquisition – 36 hours
- TSL 401X Structure of English and Grammar Teaching Techniques – 36 hours
- TSL 402X Teaching Reading and Writing – 36 hours
- TSL 403X Teaching Listening and Speaking – 36 hours
- TSL 404X Practical Issues in Second Language Pedagogy – 36 hours
- TSL 405X TESOL Practicum – 40 hours

Continuing Education Course Descriptions

CS 861X
A+ Certification Preparatory Course
A+ is a perfect introduction for those seeking a new career in the computer industry. A+ is a testing program sponsored by the Computing Technology Industry Association (CompTIA). The A+ course is a six-week preparatory course that prepares the student for the CompTIA certification tests. Earning an A+ Certification validates that the holder has reached a level of competency commonly accepted and valued by the industry. Many employers give preference in hiring to applicants with A+ Certification.

ED 342X
Vocational Education Level I: The Instructional Process in Vocational Education and Techniques of Teaching
As more and more adult learners return to the classroom, it is important that teachers know how to reach this mature audience student population. This class will provide you with the concepts and developmental skills necessary for vocational instruction.

ED 343X
Vocational Education Level II: Principles and Practices of Vocational Education
Building upon the concepts presented in Level I, this course provides a broad overview of vocational education.

ED 809X
Multiple Subject Assessment Test (MSAT) Preparatory Course
This informative, four-day course is designed to familiarize students with a variety of proven strategies for passing the MSAT. It emphasizes techniques for multiple choice and constructed response questions to help you effectively utilize knowledge of specific subject areas. It is a test preparation class only and is not a substitute for required class work.

ED 820X
Reading Instruction Competence Assessment (RICA) Preparatory Course
This intensive, three-day course is specifically designed to help prepare current and future teachers to pass the new RICA Written Examination. It is a test preparation class only and is not a substitute for the required reading and reading instruction classes.

ED 938X
U.S. Constitution Preparatory Course and Examination
This insightful, two-part course is designed to help you pass the U.S. Constitution exam, a requirement for the California teaching credential. Prior to taking the exam, you will review essential elements of the U.S. Constitution; analyze the meaning, amendments and judicial interpretation; and examine the Bill of Rights and the framers’ intents.
MS 807X
Installing, Configuring and Administering Microsoft Windows 2000 Professional
Students will gain the knowledge and skills necessary to install and configure Windows 2000 Professional on a stand-alone computer and on client computers that are part of a workgroup or a domain.

MS 808X
Installing, Configuring and Administering Microsoft Windows 2000 Server
Students will acquire the skills and knowledge necessary to install and configure Windows 2000 Server to create file, print and terminal servers.

MS 809X
Supporting Windows 2000 Network Infrastructure
New-to-product students will be responsible for installing, configuring, managing and supporting a network infrastructure that uses the Microsoft® Windows® 2000 Server products.

MS 810X
Implementing and Administering Windows 2000 Directory Services
Instructor-led training provides students with the knowledge and skills necessary to install, configure and administer the Microsoft Windows 2000 Active Directory™ service. The course also focuses on implementing Group Policy and understanding the Group Policy tasks required to centrally manage users and computers.

MS 811X
Designing a Windows 2000 Directory Services Infrastructure
Students will learn the skills necessary to design a Microsoft® Windows® 2000 directory services infrastructure in an enterprise network. Strategies are presented to assist the student in identifying the information technology needs of an organization and then designing an Active Directory™ structure that meets those needs.

MS 812X
Designing a Secure Windows 2000 Network
Providing students with the knowledge and skills necessary to design a security framework for small, medium and enterprise networks using Microsoft® Windows® 2000 technologies, this course contains four units that describe security in specific areas of the network:
- Unit 1 - Providing Secure Access to Local Network Users
- Unit 2 - Providing Secure Access to Remote Users and Remote Offices
- Unit 3 - Providing Secure Access Between Private and Public Networks
- Unit 4 - Providing Secure Access to Partners

MS 815X
Designing a Windows 2000 Networking Service Infrastructure
The information and skills needed to create a networking services infrastructure design that supports the required network applications are taught in this course. Each module provides a solution based on the needs of the organization. Some Microsoft® Windows® 2000 network solutions require a single technology, such as DHCP, to provide Internet Protocol (IP) address configuration support. In other situations, several technology options exist, such as Open Shortest Path First (OSPF), Routing Information Protocol (RIP) and Internet Group Management Protocol (IGMP), to design an IP routing scheme.

MS 816X
Windows 2000 Network and Operating System Essentials
Students who are new to Microsoft Windows 2000 gain the knowledge necessary to understand and identify the tasks involved in supporting Windows 2000 networks. This is an introductory course designed to provide an overview of networking concepts and how they are implemented in Windows 2000. This course is a recommended prerequisite for the MCSE program.

ORC 850X
Introduction to Oracle: SQL
The class will develop Oracle9i database programming skills using SQL and PL/SQL. Students will learn the Oracle9i architecture, simple and complex query skills, proper software engineering techniques for database programming, table and index creation, creating and executing scripts, the iSQL Plus environment and more. Basic relational database concepts will also be reviewed.

ORC 851X
Oracle9i Database Administration
In this course, students will learn the fundamental skills they need to manage an Oracle9i database. Students will learn database administration skills by designing, setting up, configuring and managing their own Oracle9i server. By the end of the course, each student will have gone through the main tasks necessary to administer an Oracle9i database.

ORC 852X
Oracle Back-Up and Recovery
This course builds a foundation in back-up and recovery strategies. Through lecture and labs, students will be exposed to different failure and recovery scenarios. Other topics include understanding the advantages and disadvantages of hot, cold, physical, logical, complete and partial backups will be covered. This class is taught in a workshop environment to simulate real life backup and recovery situations.

ORC 853X
Oracle9i Performance Tuning
The focus in this course is on performance tuning tools and techniques for optimizing the efficiency of an Oracle9i server. An emphasis will be placed on the major focus areas of the Oracle server. Students will learn how to generate tuning statistics, evaluate the information and then tune the Oracle server. Special emphasis will be placed on common tuning solutions in the students “real life” production database experience.

PM 800X
Project Management Professional Certification
National University’s program focuses on the development, maintenance, evaluation, promotion and administration of an arduous, professional certification in Project Management. A nationally recognized examination process supports each course. Once all the requirements are fulfilled, students attain Certified Project Management Professional status. Topics will include:
- Project Integration Management
- Project Scope Management
- Project Risk Management
- Project Communications Management
- Project Time Management
- Project Human Resources
- Project Quality Management
- Project Cost Management
Continuing Education

TED 328X
Spanish as a Professional Tool for Teachers 1A - 45 hours
Teachers are introduced to the fundamentals of the Spanish language, speaking, vocabulary, grammar and conversation. This course is the first of a two-part requirement designed to fulfill the foreign language prerequisite for CLAD Certification. Taught sequentially, this course offers 4.5 units of non-academic credit.

TED 329X
Spanish as a Professional Tool for Teachers 1B - 45 hours
Building on previous Spanish skills, the focus in this course is on grammatical structure, communication and writing. The second part of the two-part requirement, this course is designed to fulfill the foreign language prerequisite for CLAD Certification. This course offers 4.5 units of non-academic credit.

TED 352X
Immersion Spanish as a Professional Tool for Teachers - 90 hours
This immersion course in Mexico fulfills the foreign language prerequisite for CLAD Certification. The course focuses on language acquisition, vocabulary, writing and communication. Immersed in the culture and the language for 10 days, students gain insight and knowledge into the nuances and mores of the country. This class is conducted in various popular locations several times a year, offering all 9 units of non-academic credit.

TSL 400X
Theories and Methods of Language Teaching and Acquisition - 36 hours
Beginning from a historical perspective, this course covers the most prominent theories of second language pedagogy. These will serve as a springboard for discussion and reflection about the process of teaching, before moving on to more concrete issues such as learning styles, cultural influences and personality factors. This course will introduce concepts that participants can modify and apply in subsequent courses in the series, thus helping to create a personalized teaching style.

TSL 401X
Structure of English and Grammar Teaching Techniques - 36 hours
A clear and deep understanding of English grammar is absolutely essential for teachers of ESL/EFL. It is, ironically, the most common weakness of teachers, whether native speakers or not. The purpose of this course is twofold: (a) to help teachers acquire the necessary foundation and sense of grammar and (b) to give them practical and immediately applicable techniques they can use to teach grammar to their students. Topics include:

• Discussion of common problem areas for students.
• English specific to academic writing.
• Games and activities to make grammar accessible to students.
• TOEFL-related grammar issues.

TSL 402X
Teaching Reading and Writing - 36 hours
This course introduces the topics typically covered in ESL reading/writing courses and also provides techniques for teaching these topics. For example, reading courses usually include skimming and scanning, finding the main idea and inferring meaning. In a writing course, topics of study include idea generation techniques, organizational skills and paragraph and essay structure. In addition, the course covers strategies for testing reading and writing, TOEFL-specific reading and writing issues and practical and lively games designed to reinforce important topics.

TSL 403X
Teaching Listening and Speaking - 36 hours
Teachers are introduced to the topics typically covered in ESL listening/speaking courses, as well as the techniques for teaching these topics. For listening, topics include note-taking, use of videos and songs and cloze exercises. For speaking, topics of discussion range from dialog-based production at the lowest levels to speech preparation and delivery at the highest. The course will also discuss strategies for testing listening and speaking, TOEFL-specific listening comprehension issues and practical and lively games designed to reinforce important topics.

TSL 404X
Practical Issues in Second Language Pedagogy - 36 hours
Teachers in this course will cover topics such as lesson planning, teaching materials, classroom interaction and classroom management, all essential to efficient teaching. Other topics include the teaching of vocabulary, pronunciation and other subjects sometimes deemed “elective” classes. The goal of the course is to synthesize and to fill in the gaps in the rather large amount of material covered to this point in the series. Upon completion, participants will have acquired the tools necessary to feel confident entering the ESL/EFL classroom.

TSL 900X
TESOL Practicum - 40 hours
A 40-hour observation and teaching program is the final step in attaining a Professional Certificate in Teaching English as a Second Language. This practicum allows students to display their newly acquired knowledge and skills by working side-by-side with an experienced ESL teacher in a classroom environment.

Students wishing to take the TESOL Practicum must speak with the project coordinator to receive the necessary details, such as evaluation procedures, forms, placement and requirements needed to successfully complete the practicum. This course is required for a Professional Certificate in Teaching English as a Second Language.
Student Financial Aid

There are many types of financial aid available to assist students who qualify. Please refer to the following chart under Financial Aid Programs for information on available Federal, State and institutional aid programs. For specific information regarding National University’s policies and procedures, please refer to the Financial Aid Guide. This guide is online at www.nu.edu and at all centers.

How to Apply for Financial Aid

Planning ahead and applying for financial aid programs can help students obtain an education, which might otherwise be outside their financial reach.

To be considered for Federal and State financial aid, students must complete the process of “need analysis.” Need analysis is the method used to estimate the amount of money students and their families can reasonably contribute toward the cost of education. For the 2003-2004 school year, student awards will be determined using 2002 income (taxed and untaxed) and current assets. Other factors considered include the student’s marital status and family size.

Application Packets

Students may obtain a How to Apply Guide package from a financial aid or admissions advisor at all campuses and learning centers. The package includes a Free Application for Federal Student Aid (FAFSA), which students must complete, sign and mail to the federal processor for evaluation. To expedite the process, students are encouraged to apply on-line at www.fafsa.ed.gov. National University computer labs are available for our students’ use.

Important Note: Students must mail in their signed certification page within 14 days when filing on-line in order for the FAFSA to be completely processed and eligibility determined by the U.S. Department of Education.

Student Eligibility Requirements

To receive financial aid, students must meet all of the federal eligibility requirements. Students must:

• have a high school diploma or a General Education Development (GED) certificate
• be a U.S. citizen or an eligible non-citizen
• be enrolled in an eligible program and matriculated by the Office of the Registrar (excludes non-degree studies and continuing education programs)
• demonstrate financial need as determined by the federal methodology (excludes the federal unsubsidized Stafford Loan Program)
• have a valid social security number
• maintain satisfactory academic progress, as defined by the University Financial Aid Office
• sign a Statement of Educational Purpose/Certification Statement on Overpayment and Default
• register with Selective Service, if required to do so
• complete the verification process, if selected to do so, by submitting a copy of federal tax forms and any other required documents

Special Requirements for Federal Stafford Funds for Master’s of Education

In order to ensure appropriate academic intent and appropriate funding, financial-aid requests for students enrolled on May 1, 2003, in a Master’s of Education with a credential will be processed for aid at the fifty-year credential level until successful completion of a course applicable only at the graduate level, commonly referred to by the University as a master’s intent course. These courses are TED 665, 666, 667, 668, and MAT 640. Once one of these has been successfully completed, the Financial Aid Department will, if the student’s enrollment period permits, process a supplemental loan for which the student will receive graduate-level funding up to the annual academic-year limit.

Note: A student’s eligibility for any of the federal programs may be suspended or terminated by a court as part of a conviction for possessing or distributing drugs.

Dependency Status

Students who apply for financial aid must determine whether they should apply as independent (self-supporting) students or as dependent students. Determination of a student’s dependency status is made in the student status section on the Free Application for Federal Student Aid (FAFSA).

Students who meet at least one of the following criteria are considered independent:

• Students who were born before January 1, 1980 (for the 2003-2004 school year)
• Students who are married
• Students who are enrolled in a graduate program (this does not include students who are enrolled in a credential program)
• Students who have legal dependents other than a spouse
• Students who are orphans or wards of the court (or were wards of the court until they reached age 18)
• Students who are veterans of the U.S. Armed Forces (this does not include active duty military students)

Students who claim to be independent may be asked to provide documentation to verify their dependency status prior to receiving financial aid. Students who want to be considered independent due to circumstances other than those listed should contact a financial aid advisor prior to completing the FAFSA.

Student Loan Deferment

Students are eligible for a federal interest subsidy whereby the federal government, rather than the student, pays the interest on a student’s outstanding loan during the time the student is in school. During an authorized deferment of repayment, Unsubsidized Stafford borrowers are eligible for the same deferment as Stafford borrowers. However, a deferment for an Unsubsidized Stafford borrower applies to principal only.

Deferments for PLUS applicants vary. See the Student Guide for details.

In-School Deferment

Once a month, the University submits student enrollment data to the National Student Loan Clearinghouse. For most students, this process reduces the number of deferment forms to fill out. However, students who receive a letter, statement, or a deferment form from a lender must complete and submit the deferment form as required. The clearinghouse was created for Stafford/PLUS borrowers only and does not apply to Perkins or NU-HELP borrowers.

Students should contact their lender and/or the University for additional information.
# Financial Aid Calendar

A calendar of deadlines and critical dates for students applying for financial aid at the University.

<table>
<thead>
<tr>
<th>2003-2004</th>
<th>2004-2005</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1, 2003</td>
<td>January 1, 2004</td>
<td>• Apply for financial aid. Students must file a new Free Application for Federal Student Aid (FAFSA) annually.</td>
</tr>
<tr>
<td>March 2, 2003</td>
<td>March 2, 2004</td>
<td>• Deadline for new Cal Grant A and B applications.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• National University Financial Aid priority filing date for FSEOG and Federal Perkins Loans. Note: The Financial Aid Office will continue to make awards after this date as long as funds remain.</td>
</tr>
<tr>
<td>April 2003</td>
<td>April 2004</td>
<td>• National University begins processing student awards. Financial Aid Packets containing the IAFFA and other verification documents will be mailed to aid applicants.</td>
</tr>
<tr>
<td>June 2003</td>
<td>June 2004</td>
<td>• Announcements of Cal Grant A and B Awards.</td>
</tr>
<tr>
<td>July 2003</td>
<td>July 2004</td>
<td>• The funding period begins for the Federal Pell Grant and Campus-Based programs (FSEOG, Federal Perkins).</td>
</tr>
<tr>
<td>October 2003</td>
<td>October 2004</td>
<td>• The funding period begins for the Cal Grant programs.</td>
</tr>
<tr>
<td>June 30, 2004</td>
<td>June 30, 2005</td>
<td>• Federal Pell Grant deadline.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Last day to file the FAFSA.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Note: The Federal Student Aid Center must receive the student’s FAFSA by this date (June 30th). Applications postmarked June 30th and received by the processor after June 30th will not be accepted for processing.</em></td>
</tr>
<tr>
<td>June 30, 2004</td>
<td>June 30, 2005</td>
<td>• National University Verification/Processing deadline. Students must submit all requested forms by this date in order to receive financial aid for the school year.</td>
</tr>
</tbody>
</table>

**Completion of Student's Academic Year**

• Applying for an additional loan (Stafford and/or PLUS): Because students apply for and are awarded aid during different times of the year, each student's academic year will vary. Generally, students are eligible to reapply after they successfully complete all courses in the previous loan period. In addition, 32 weeks of in-class instruction (8 months) must be completed. To submit a new loan application, students must have at least three months remaining in their academic year and they must meet the University's minimum unit requirement:

| Undergraduate /Credential: | 12 units |
| Graduate:                  | 9 units  |
Financial Aid Programs

The following chart describes Federal, State and institutional financial aid programs that are available. Please pay attention to program requirements and applications deadlines.

<table>
<thead>
<tr>
<th>Financial Aid Programs 2003-2004</th>
<th>Application Deadline</th>
<th>Date Funding Begins</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FEDERAL PELL GRANT</strong> is a grant program to help students with tuition cost. This program assists students who are working towards a first bachelor’s degree. Award Range: $400 to $4,050 Applications: FAFSA, IAFFA</td>
<td>June 30, 2004</td>
<td>July 2003</td>
</tr>
<tr>
<td><strong>FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)</strong> is a grant program to assist with tuition cost. Like Pell Grant, a student must be enrolled in a first bachelor’s degree. Awards are made on a limited basis to students with an exceptional financial need. Award Range: $100 to $3,000 Applications: FAFSA, IAFFA</td>
<td>Priority filing date: March 2, 2003</td>
<td>July 2003</td>
</tr>
<tr>
<td><strong>CAL GRANT A</strong> is a state funded grant program to help students with tuition cost. Grant recipients are selected on the basis of financial need and grade point average. Students must be California residents working towards a first bachelor’s degree. Recipients of this award will be notified by the California Student Aid Commission in June. Award Range: $300 to $10,680 Applications: FAFSA, GPA verification</td>
<td>March 2, 2003</td>
<td>Oct. 2003</td>
</tr>
<tr>
<td><strong>CAL GRANT B</strong> is a state funded grant program to help students with tuition cost. This program is intended to assist students with high-potential from disadvantaged/low-income families. Students must be California residents who have completed less than one semester of undergraduate studies. Recipients of this award will be notified by the California Student Aid Commission in June. Tuition Award Range: $300 to $10,680 Subsistence Range: $156 to $2,068 Applications: FAFSA, GPA verification</td>
<td>March 2, 2003</td>
<td>Oct. 2003</td>
</tr>
<tr>
<td><strong>CAL GRANT T</strong> is a state funded grant program for students who are enrolled in and attend programs of professional preparation for a California K-12 single or multiple subject Teaching Credential. These grants, which are offered for one academic year only (3 quarters), are specifically awarded to students who already have a bachelor’s degree or higher and are attending California institutions approved by the California Commission on Teacher Credentialing. All students must complete a FAFSA and a Cal Grant T GPA Verification and Enrollment form. The Cal Grant T program now includes a teaching service requirement. New recipients will be required to teach one (1) year, up to the maximum of four (4) years, for each $2,000 received. A Cal Grant T recipient who does not provide teaching service will have to repay the award. Award Range: $300 to $8,010 Applications: FAFSA, Cal Grant T GPA verification and Enrollment Form.</td>
<td>June 1, 2003</td>
<td>Oct. 2003</td>
</tr>
</tbody>
</table>

**1 Credential Program** Students must complete the program residency requirement at National (except for recipients of NU Scholarships) and may only apply for financial aid as a fifth year undergraduate.

**2 Certificate Program** These programs must consist of 36 units in length (except for recipients of NU Scholarships). Students are not eligible to reapply for an additional Stafford or PLUS Loan in the Certificate Program.

**KEY**
- **FAFSA**: Free Application for Federal Student Aid
- **IAFFA**: Institutional Application for Financial Aid
- **GPA**: Grade Point Average

*Note: Award ranges and aid types are tentative.*
### Financial Aid Programs 2003-2004

<table>
<thead>
<tr>
<th>Grant</th>
<th>Loan</th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Need-Based</th>
<th>CERT - 1</th>
<th>CERT - 2</th>
</tr>
</thead>
</table>

- **FEDERAL STAFFORD STUDENT LOAN** is a loan program to assist students with educational expenses. The interest rate for a new borrower is a variable interest rate capped at 8.25% and is adjusted July 1 of each year. The 2003-2004 rate is 2.82%. Stafford recipients are not required to make payments or pay the interest during full-time attendance or the first six months after the student’s last date of attendance.

  Loan Amount: For each academic year, a dependent student may borrow:
  - up to $2,625 as a first year undergraduate
  - up to $3,500 as a second year undergraduate
  - up to $5,500 as a third, fourth, or fifth year undergraduate

  Dependent students may receive both an unsubsidized and subsidized Stafford up to the amounts listed above.

  Applications: FAFSA, IAFFA, Loan Application

- **UNSUBSIDIZED FEDERAL STAFFORD LOAN** is a program available to students who may not qualify for a subsidized Stafford Loan or for students who may qualify for only a partial subsidized Stafford Loan. This loan has a variable interest rate capped at 8.25% adjusted July 1 of each year. The 2003-2004 rate is 2.82%. The terms and conditions are the same as the subsidized Stafford Loan, except that the borrower is responsible for the interest that accrues while the student is in school and during the grace period.

  Loan Amount: Students may receive both subsidized and unsubsidized Stafford Loans totaling up to the applicable Stafford limit (based on grade level).

  Applications: FAFSA, IAFFA, Loan Application

  Loan Amount: For each academic year, an independent student may borrow:
  - up to $6,625 as a first year undergraduate
  - up to $7,500 as a second year undergraduate
  - up to $10,500 as a third, fourth, or fifth year undergraduate
  - up to $18,500 as a graduate

  Note: Students enrolled in an academic year requiring less than 40 units will be subject to a pro-rated loan.

  **Aggregate Stafford Loan Limits**
  - Dependent Undergraduate: $23,000
  - Independent Undergraduate: $46,000
  - Graduate: $138,500

  ($65,500 in subsidized Stafford and $73,000 in unsubsidized Stafford)

  Note: The graduate debt limit includes any Stafford Loans received as an undergraduate.

  Fees:
  - Loan Origination Fee: A loan origination fee of up to 3% of the loan principal is deducted proportionately from each loan disbursement.
  - Insurance Premium: An insurance premium of up to 1% of the loan principal is also deducted proportionately from each loan disbursement.

### Application Deadline | Date Funding Begins
--- | ---
Three months prior to the student’s last course of the academic year | Based on each student’s individual course schedule

---
### Financial Aid Programs 2003-2004

#### Federal Parent Loans for Students (PLUS)

- **Description**: A loan program to assist parents of undergraduate dependent students with educational costs. This loan has a variable interest rate capped at 9% and is adjusted July 1 of each year (the 2003-2004 rate is 4.22%). Like the unsubsidized Stafford Loan, the interest is not subsidized by the government. Repayment begins 60 days after the loan is made; however, for parents who qualify, payments (principal only) can be deferred during full-time attendance, but interest will accrue.

- **Loan Amount**: For each academic year, a parent may borrow up to the student’s cost of attendance minus other aid, per undergraduate dependent student.

- **Fees**: (same as the Stafford Loan Program)

- **Applications**: IAFFA, FAFSA, PLUS Loan Application

#### Federal Perkins Loan

- **Description**: A low-interest (5%) loan program. This program assists students with tuition cost and is funded on a limited basis to students with exceptional need. The major advantage for Perkins recipients is that the government pays the interest during at least half-time attendance and for nine months after the student’s last date of attendance. In addition, students are not required to make payments during that time.

- **Award Range**: $300 to $3,600

- **Cumulative Totals**:
  - Up to $20,000 for undergraduate study
  - Up to $40,000 for graduate or professional study

- **Applications**: IAFFA, FAFSA, Perkins Loan Application

#### National University Scholarship Program

- **Description**: Consists of the Need-Based Award, the Collegiate Honor Award and the NU Presidential Scholarship. These awards are designed to recognize students for outstanding leadership, superior job performance and exceptional scholastic achievement. The NU Presidential Tuition Scholarship is also designed to recruit and retain underrepresented educationally and economically disadvantaged students, single parents with financial need and handicapped students.

- **Awards**:
  - Need-based Grant up to $900
  - Collegiate Honor up to $1,600
  - Presidential Tuition Scholarship up to $2,500

- **Applications**: Scholarship Application

#### National University Higher Education Loan Program (NU-HELP)

- **Description**: A low-interest (6.75%) loan established by National University. This loan program is designed to supplement other resources the student may receive. Applicants are selected on the basis of financial need and credit history. Repayment begins six months after the student’s last date of attendance. The maximum repayment term is 10 years. Funds are awarded to assist students with tuition cost, on a limited basis.

- **Award Range**: up to full tuition for 12 months

- **Cumulative total of tuition for fiscal year**:

- **Origination Fee**: $30 will be charged to the student’s account.

- **Applications**: FAFSA, IAFFA, NU-HELP Loan Application

<table>
<thead>
<tr>
<th>Application Deadline</th>
<th>Date Funding Begins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three months prior to the student’s last course of the academic year</td>
<td>Based on each student’s individual course schedule</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Priority filing date</th>
<th>July 2003</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Open, but subject to available funds</th>
<th>Funding will begin upon receipt of the signed scholarship acceptance letter by the Fin. Aid Dept.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Open, but subject to available funds</th>
</tr>
</thead>
</table>

| July 2003 |
Scholarship Program

University Scholarships and Grants

Each year, National University awards tuition scholarships or grants to students who demonstrate exceptional scholastic achievement, educationally and economically disadvantaged students, differently able students and single-parent students with demonstrated financial need and based on the eligibility rules that apply to the particular award. The University’s goal is to attract and retain quality students by providing scholarships that are based upon merit and financial need.

The University may, at its discretion, target certain campuses and/or certain academic programs for the awarding of scholarships. This prioritization will then constitute the first criterion for selection. The secondary criteria will be those specified for each type of scholarship as described below.

National University’s scholarships are considered “last money” tuition scholarships. These scholarships are designed to supplement, but not replace, federal and state financial aid, employer tuition assistance and student income. Awards are credited directly to the financial accounts of the recipients. The number of scholarships depends on the availability of allocated funds. As a nonprofit institution, the University tries to provide as many scholarship and grant opportunities as possible.

The application form for scholarships is available online at www.nu.edu/scholarships. Students are responsible for reading and complying with the policies and procedures contained in this catalog prior to applying for a scholarship.

Types of Awards

• **Collegiate Honor Award**
  Tuition scholarships of up to $1,600 are available to students who have demonstrated exceptional scholastic achievement and are in need of financial assistance. To be eligible for this award, applicants must have completed 54 semester units at a U.S. accredited community college or four-year college with an undergraduate grade point average of at least 3.5 on a scale of 4.0. Awards will be credited to students’ accounts in increments, up to the maximum of the full cost of tuition per course. The application form is available online at the above Web address.

• **Need-Based Grants**
  A need-based grant of up to $900 is available to students who are eligible for financial aid to assist them in making partial payments toward their cost of tuition while their request for Federal Student Aid is processed. Students seeking such a grant must file a Free Application for Student Aid (FAFSA). Awards are made on the basis of a student’s Expected Family Contribution (EFC) number, as calculated by the U.S. Department of Education from the filing of a FAFSA. The application form is available online at the above Web address.

• **NU Presidential Tuition Scholarship**
  NU Presidential Tuition Scholarships of up to $2,500 are available each fiscal year to undergraduate transfer students in at least one of the following categories:
  - educationally and economically disadvantaged persons who have been historically underrepresented at higher educational institutions (African Americans, Hispanics and Native Americans)
  - single parents with demonstrated financial need
  - persons with a verified disability and financial need

Applicants must also meet all of the eligibility criteria listed below. They must:
  - have an annual income below $15,000 for single parents or $22,000 for a family of two or more
  - demonstrate a cumulative college grade point average of 2.30 on a 4.00 scale
  - have at least 56 semester hours of credit from an accredited college or university
  - apply for federal and state financial aid
  - be an undergraduate student working toward a first bachelor’s degree
  - be a U.S. citizen or eligible non-citizen

Awards will be credited to students’ accounts in increments, up to the maximum of the full cost of tuition per course. The application form is available online at the above Web address.

• **Leadership Award (UCNU Students Only)**
  The primary purpose of the Leadership Award is to recognize UCNU students for leadership, superior job performance, or achievement. The secondary purpose is to encourage such students in economic need to continue their education at National University or to enroll therein. A Leadership Certificate and a tuition award of up to $1,600 are awarded to applicants selected by the Leadership Award Committee. Students or prospective students who need financial assistance and meet the eligibility requirements can apply for a Leadership Award by submitting an online application form. Applications must be submitted within the first three months of the date of admission. The application form is available online at the above Web address.

Applicants must meet the basic eligibility criteria listed below. They must:
  - be a student in UCNU
  - have demonstrated economic need as determined by the U.S. Department of Education, so a FAFSA must be filed at www.fafsa.ed.gov.
  - submit an autobiographical statement that includes educational goals, leadership exercised in school or in the community, and perseverance and determination to excel despite social or economic disadvantage.
  - provide a letter of recommendation from a faculty member, counselor, group moderator, or employer.

The letter of recommendation should be sent to the following:

Coordinator of Scholarships and Special Services
NATIONAL UNIVERSITY
11355 North Torrey Pines Road
La Jolla, CA 92037-1011

Or emailed to scholarships@nu.edu.

• **Community Scholarship**
  The purpose of the community scholarship is to recognize outstanding performance in the workplace, professional organizations and community colleges. The Community Scholarship Program for employers and organizations is designed to augment such recognition programs as employee of the quarter/year, etc. For community colleges, the scholarship is designed to recognize outstanding academic performance for undergraduate transfer students.
Employers, professional organizations and community colleges interested in participating in the National University Community Scholarship Program should contact the Coordinator for Scholarships and Special Services at (858) 642-8185. The request should include a brief description of the employer/organization’s current recognition program selection procedures and the number of employees/members eligible to participate.

Scholarship Rules and Policies

Rules and policies that govern National University funded awards are as follows:

- Funds will only be applied toward the student’s tuition account for courses charged at the standard rate of tuition. Funds will not be applied toward non-degree or certificate courses.
- Recipients must enroll and begin attending courses within three months from the notification of award. Otherwise the award is revoked.
- Funds will only be applied toward courses the student has not yet attended. Funds will be not be applied to past due balances.
- Funds are credited to a student’s account in maximum increments of, $225 per 4.5 unit course per month for the Need-Based Grant.
- $400 per 4.5 unit course per month for the Collegiate Honor Award.
- Up to the full cost of tuition per month for the Presidential Tuition Scholarship.
- Award funds will only be applied toward the tuition cost for academic coursework toward an intended degree objective.
- Awards are not transferable. Only one award can be received and used per degree objective, except for eligible Presidential Tuition applicants who may re-apply and may receive a new award each Fiscal Year while pursuing their first bachelor’s degree.
- Awards are made to students for their intended degree objective at the time of application.
- Students who receive other educational assistance in excess of 90% of the cost of tuition for a course are not eligible to receive award funds for the course.
- Recipients must maintain good standing with the Student Accounts Office to ensure continuation of their award. Recipients who do not maintain a good standing with the Student Accounts Office risks losing their award.
- This award may affect the amount of other financial aid for which a student may qualify, or the award may be reduced or nullified by other educational assistance and aid the student receives.
- Application of award funds toward a withdrawn course will be based on the charge incurred. If no charge, there will be no application of funds.
- Award funds must be used within 12 months of the original award. Funds not used within 12 months of the award are forfeited.

Externally Funded Scholarships

There are many corporations, organizations and foundations that provide scholarships to students seeking undergraduate and graduate degrees. For application procedures and scholarship criteria, students should consult reference books in National University’s library or on the Internet at www.finaid.com/finaid/fastweb.html.

V.A. Educational Benefits

Many active duty military personnel, veterans, dependents of deceased or disabled veterans and reservists are eligible for Department of Veterans Affairs’ educational benefits. The programs administered by the Veterans Affairs office at National University are:

- **Chapter 32, VEAP**
  For veterans who entered active duty between January 1, 1977 and June 30, 1985 and who contributed to the program while on active duty.

- **Chapter 30, Montgomery G.I. Bill (Active Duty)**
  For veterans who entered active duty beginning July 1, 1985 and who participated in the 12-month pay reduction program while on active duty. Also includes Chapter 32 active duty persons with eligibility as of October 1, 1996 who elected to participate in the Montgomery G.I. Bill.

- **Chapter 106, Montgomery G.I. Bill (Selected Reserve Program)**
  For undergraduates and graduates who enlisted in the reserves and who have made a six-year commitment to the selected reserves.

- **Chapter 35, Dependent’s Benefits**
  For spouses or children of veterans who died on active duty, whose death was caused by a service-connected disability, or who are rated 100% permanently disabled by the Department of Veterans Affairs.

- **Chapter 31, Vocational Rehabilitation**
  For veterans with a service-connected disability, or who are rated 10 percent or more disabled by the Department of Veterans Affairs.

- **Chapter 34, G.I. Bill**
  For veterans who are currently on active duty if they entered the armed forces between January 1, 1977, or after January 1, 1977 under a delayed entry program.

Students should be aware that the Veterans Administration pays educational benefits only for those courses that are part of an approved degree or certificate program and that have not been previously and successfully completed. Students are required to attend classes regularly and maintain satisfactory grades.

Military Tuition Assistance

The Tuition Assistance Department is located at 4121 Camino del Rio South, San Diego. The department provides counseling, guidance and reimbursements to the University for students who are eligible for active duty tuition assistance if they are in the armed forces. Students may be eligible for tuition assistance up to 75% of the cost of their tuition. The amount of the benefit for active duty tuition assistance is determined by the military branch of service. The tuition assistance staff works with active students and ensures the contracts are monitored for accuracy and meet compliance issues. It is the student’s responsibility to apply for tuition assistance through the Educational Services Officer on Base.

Students who want to apply for programs administered by the Department of Veterans Affairs can obtain information on how to apply for their benefits by calling or visiting the Veterans Affairs Office located in the Student Services Center at the Learning Center in San Diego’s Mission Valley. Veterans who enroll at National University are encouraged to call or visit the veterans representative for instructions prior to signing up for benefits. The Veterans Affairs Office telephone number is (619) 563-7270 or (800) 628-8648, ext. 7270.
Alternative Educational Funding

Reserve Officers' Training Program (ROTC) Army and Air Force

Students can enroll in the ROTC program while attending classes at National University. There is a continuing need for scientific, computer, engineering, medical and management personnel as well as pilots and navigators in both the Army and Air Force.

ROTC offers scholarships on a competitive basis for students already enrolled in college. Scholarship programs vary slightly each year. Generally, scholarships exist at the two-, three-and-one-half- and four-year college levels. Applicants for ROTC scholarships are selected on the basis of the “whole-person” concept that includes both objective (e.g., grade point average) and subjective (e.g., interview evaluation) factors.

National University students can enroll in ROTC by contacting the local ROTC Recruiting Office. Veterans who complete their studies and are commissioned by age 35 may also be eligible for the ROTC.

Corporate Tuition Assistance

Many companies and government agencies award tuition reimbursement to employees. Please check with your employer for information on how to apply for this employee-development fringe benefit.

Aid for Native Americans

Native American students who can prove membership of a federally recognized tribe may receive educational grants from the federal Bureau of Indian Affairs (BIA).

Applications for BIA grants for California tribes are available by writing the Bureau’s Office of Indian Education, 2800 Cottage Way, Sacramento, CA 95825, (916) 978-4680.

California State Rehabilitation

The Department of Rehabilitation is a state agency that helps men and women with disabilities enter or return to work. It also has programs that ensure the rights of people with disabilities.

Disabled persons who need help living more independently or who need training to get a job should contact the regional office of this state agency.

Private Lenders

There are several privately funded education loan programs available to assist students who do not qualify or have limited eligibility for government or institutional financial aid. Below are listed Web sites for some available private loan programs.

www.educaid.com
www.studentloan.com
www.salliemae.com

Specialized Programs

The APLE program is a competitive teacher incentive program designed to attract outstanding students into the teaching profession. For those selected, the APLE program assumes up to $11,000 in outstanding educational loans. Students must be California residents and enrolled in a course of study or a teacher preparation program leading to an initial teaching credential or a specialist credential in special education or reading. To receive the full benefit of the program, selected APLE recipients must agree to teach for four consecutive years in a California public school in a subject matter shortage area (math, science, foreign language, or special education) or in schools that serve a high proportion of students from low-income areas.

For those applicants selected, the program will assume up to $2,000 in educational loan debts for the first year of eligible teaching service and up to $3,000 for each of the second and third years of eligible teaching service. Application period: March through June – see your financial aid advisor for current deadlines.

Additional Information Sources

California Student Aid Commission
www.csac.ca.gov

U.S. Department of Education
www.ed.gov/finaid.html

College is Possible
www.collegeispossible.org

Scholarship Search and Financial Aid Calculator
www.fastweb.com

The U.S. Department of Education has created the Student Financial Aid Ombudsman to work with student loan borrowers to informally resolve loan disputes and problems with the following federal loans:

William D. Ford Federal Direct Stafford Loans: Subsidized and Unsubsidized Direct Stafford Loans, Direct PLUS Loans (for parents) and Direct Consolidation Loans.

Federal Family Education Loans: Subsidized and Unsubsidized Stafford Loans, FFEL PLUS Loans (for parents) and FFEL Consolidation Loans.

Guaranteed Student Loans, SLS Loans and Perkins Loans

Policies and Procedures

44 General Admission Procedures
44 International Students
45 Attendance Procedures
46 Students with Disabilities
46 Complaints Relating to Discrimination or Sexual Harassment
48 Office for Student Affairs
48 Student Discipline
51 Grade Appeals
51 General Policies and Procedures
55 FERPA
56 Computer Lab Regulations
56 Computer Software and E-mail Policies

Defining the Future of Higher Education
for Adult Learners
Selected Admission Procedures

Selection of Candidates

Admission to National University is based on evidence of a student’s ability to benefit from its educational program. Such evidence can include any or all of the following: the student’s academic record in other institutions, test scores, interviews, professional experience, motivation and educational objectives.

Qualified applicants can begin classes any month of the year, depending on course offerings at their chosen learning facility. A “provisional” acceptance letter authorizes applicants to begin degree programs as enrolled students for up to three courses. During this time, students must submit documents required for official acceptance as degree candidates. After the Office of the Registrar receives all official transcripts and other documents, the specific degree requirements are finalized for students. A Notice of Matriculation or Degree Audit Reporting System (DARS) report constitutes official notification to students of the course of study required to complete the selected degree program.

Academic/Admissions Advising

Persons seeking admission to undergraduate and graduate studies at National University are unique in their specific circumstances and needs. Consequently, applicants are interviewed by an admissions advisor. The admissions advisor discusses applicants’ specific requirements for admission at the initial interview.

Registration

Applicants for admission must complete all registration requirements prior to attending the first class. Students are encouraged to register for all courses within a degree program at one time. Schedules may need to be modified upon receipt of the Notice of Matriculation or DARS Report, or any other event that may change the student’s circumstance. All prospective and registered students receive a seven-digit student number.

Use of Social Security Number

Applicants must include their Social Security Number where indicated on the application for admission forms. The Social Security Number is used to identify student records, including records for financial aid eligibility and the disbursement and repayment of financial aid and other debts payable to the University.

Transcript Requests of Other Institutions

Transfer credit earned at other institutions cannot be considered without official transcripts. Because of the volume of coursework that may be transferable for undergraduate students, the University will process on their behalf the initial request for all domestic transcripts, including payment of associated fees. Because the California Commission on Teacher Credentialing requires that the University possess transcripts from all institutions previously attended by credential students, the University will process on their behalf initial requests for all domestic transcripts, except a transcript showing proof of baccalaureate degree (see below), excluding payment of associated fees. Because some institutions take from four to five weeks to respond to a request for transcripts, students are asked to sign a “Request for Transcript” form for the above mentioned institutions when the application fee is paid. These forms are used to procure the documents. If a transcript has not arrived within six weeks, the registrar’s office will submit a second request and notify the student that a transcript is still outstanding. Thereafter, it becomes the student’s responsibility to ensure that the University receives the document. When the admission process is complete, any further acquisition of transcripts is the sole responsibility of the student.

In order to expedite the admission process (see Academic Information for Graduate Degrees), graduate and credential students are asked at the time of admission to secure from the college or university where they completed their baccalaureate degree a copy of their transcript in a sealed envelope. Admissions advisors will give them a prepaid envelope addressed to the Office of the Registrar of National University in which students are to mail the sealed envelope containing the transcript. Students are advised not to open the sealed envelope of the issuing institution. Doing so will render the transcript invalid and a new one will need to be procured.

The university will not process requests for foreign transcripts/documents. Students who have attended institutions in foreign countries must acquire official transcripts/documents themselves.

Official transcripts should be sent by the issuing institution directly to:

Office of the Registrar
NATIONAL UNIVERSITY
11355 North Torrey Pines Road
La Jolla, California, 92037-1011

The Office of the Registrar will not accept hand-carried transcripts or transcripts “issued to student” as official documents unless in a sealed envelope from the issuing institution.

Transcripts from other institutions that have been presented for admission or evaluation become a part of the student’s academic file and are not returned or copied for distribution.

Readmission Procedures

Students who are in good standing and have not satisfactorily completed a course in their program over a 12-month period may be readmitted to the University upon application. They are required to follow the policies of the catalog in effect at the time of re-enrollment and pay a re-enrollment fee. For post baccalaureate students simultaneously enrolled in more than one program, satisfactory completion of a course in one program over a 12-month period will not keep them current in another program. If they have not satisfactorily completed a course in the second program within the past 12 months, they will have to re-enroll in that program under the then current catalog. Undergraduate students can only pursue one degree program at a time.

International Students

Admission

Applicants who require a Certificate of Eligibility for Nonimmigrant (F-1) Student Status, should contact an international admissions advisor for information on special admission requirements. A non-refundable application fee of $100 is required for all international students. Prospective international students must establish means of financial support, provide official transcripts of previous education in order to establish academic eligibility and fulfill an English Language Proficiency requirement. proficiency.

Note: The University is required to maintain student records and to furnish the information to appropriate USC Federal Agencies upon request.
Transcript Evaluation

Official transcripts are required for admission. Transcripts from international institutions of higher education may require a credit recommendation by a recognized evaluation service selected by National University. Applicants are responsible for any required evaluation fees. The final decision on awarding credit is made by National University, which carefully considers the evaluation service’s recommendations. Further information is available from the Office of the Registrar in San Diego.

Language Proficiency

The English Language Proficiency requirement can be fulfilled with one of the following:

1) Providing proof of a Baccalaureate or a Master’s degree from a U.S. Regional accredited colleges or university.
2) Test of English as a Foreign Language.

Student can establish English Language Proficiency by a Test of English as a Foreign Language (TOEFL) taken within 12 months before beginning course work. Acceptable TOEFL scores are 525/197 for undergraduates and 550/213 for graduate students.

International English Language Testing System (IELTS) may be used in lieu of TOEFL. Undergraduates must score 5.5 and graduates must score 6.

A Certificate of Advanced English (C.A.E.) or Certificate of Proficiency in English (C.P.E.) grade of “C” or better will also be accepted.

International students who have not taken TOEFL may establish language proficiency by completing English as a Second Language (ESL) through National University’s English Language Programs (ELP) or a language school approved by National University.

3) Completing National University’s English Language Program in San Diego (TOEFL is not required for students who have completed National University English language program).
   • International students who need English Proficiency are tested and placed in the appropriate class level.
   • English Language classes follow the University calendar and provide 100 hours of instruction per month
   • At the end of the first three class sessions, the students are evaluated for advancement

   Interested students should apply directly to:
   English Language Program
   NATIONAL UNIVERSITY
   4121 Camino del Rio South
   Suite 18
   San Diego, CA 92108

   • ELP also offers programs for students who want to study English language but do not plan to attend National University.

4) University of California at Davis’ “International Training and Education Center” – advanced level
5) Fresno International English Institute

For additional information regarding the English Language requirements, students should contact an English Language Programs Coordinator at (619) 563-2657 or an international student advisor at (619) 563-7212 or 1 (800) NAT-UNIV, ext. 7212, 2657 or email: ipo@nu.edu

Test of English as a Foreign Language

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A Certificate of Advanced English (C.A.E.) or Certificate of Proficiency in English (C.P.E.) grade of “C” or better will also be accepted. International students who have not taken TOEFL may establish language proficiency by completing English as a Second Language (ESL) through National University’s English Language Programs (ELP) or a language school approved by National University.

Orientation for International Students

Orientation is done on an individual basis. The student will meet with an advisor prior to the students’ first class. The orientation session will cover National University’s intensive one-month format, academic policies and procedures, library and research facilities. Immigration regulations, auto and health insurance, banking and other topics of interest are also covered. International student handbook is also available on our National University’s Website http://www.nu.edu/ipo

Attendance Procedures

All students must be officially registered for a class to attend it or to receive a grade. This means that the course must be added to the student’s schedule prior to the third night of class. University instructors cannot permit unregistered students to attend a class and cannot issue grades to unregistered students. The Office of the Registrar will not post grades for unregistered students.

Students are considered officially enrolled in a class after attending more than the first 25 percent of the scheduled class sessions for which they registered. For a typical one-month course, this means attending the first three class sessions. Specific definitions of full-time enrollment status apply to recipients of financial aid and veterans benefits.

Students are expected to attend all class sessions. An instructor may withdraw a student from class prior to the seventh session in undergraduate courses and the sixth session in graduate courses if the student has more than two absences. An absence is assessed each time a student is not in attendance during a regularly scheduled class period, whether or not it is an excused absence. With instructor approval, students may be allowed to make up examinations or class assignments missed due to absence or tardiness. Students must arrange to complete any make-up work with the instructor, in advance. Students who have more than three absences, and who are not withdrawn from the course, will be issued a letter grade of “F.”

Tardiness to and early departure from classes accrue, with the potential for a cumulative effect of absences.
Any dispute about attendance must be addressed by the student in writing to the Registrar’s Office within thirty days of the posting of grades for the class. Once grades have been issued and credit awarded, neither the coursework nor the grade can be expunged from the student’s record and tuition will not be refunded. With instructor approval, students may be allowed to make up examinations or class assignments missed due to absence or tardiness. Students must arrange to complete any make-up work with the instructor, in advance. Work must be completed prior to the last class session. With instructor approval, a grade of incomplete may be issued if coursework is not completed by the last class session. Approval of the assignment of an incomplete grade is at the discretion of the instructor.

Course Scheduling

Any course substitutions or changes in a degree program must be consistent with a student’s degree objective and fulfill the graduation requirements for the degree. Students should contact an admissions advisor before withdrawing from a course or requesting a schedule or program change.

Students can change a registered course as follows:

Students may drop a course:
• Prior to the first 25 percent of the scheduled class sessions. No grade will be given and no tuition will be charged. For a one-month course, students must drop the course prior to the third scheduled class session to avoid incurring a tuition charge or receiving a grade. After the first 25 percent of the scheduled class sessions, a grade will be entered and a tuition charge levied according to the refund policy.

Students may change a course:
• Prior to the start date of the course. To assure that the desired course is available, students are encouraged to substitute or add a course at least one week in advance of the start date.

Course Withdrawal

The term “Withdrawal” signifies that a student has withdrawn from a course after beginning the third class session. Notifying the instructor of one’s intent to withdraw is insufficient and will not constitute a withdrawal. A “Withdrawal” is not allowed after the beginning of the seventh class session. To withdraw, the student must notify an admissions advisor in person or in writing. The effective date of withdrawal is the last date of actual attendance. This is a permanent mark with no grade points assigned. Students withdrawing from one course while retaining their registration with the University should refer to the Withdrawal section under Grading System in this catalog.

Cancellation of Classes or Programs

The University reserves the right to cancel or postpone a class or a program if student enrollment is insufficient. However, every effort will be made to cancel the class or program well in advance of the beginning date.

Bar from Attendance

Students may be barred from attending classes for failure to:
• Present official transcripts certifying degree/status from previous institutions

Students who are barred from attendance are generally given advance notice. If a student fails to respond or has a history of failing to respond, action will be taken without further notice and the student will no longer be entitled to services of the University, except for assistance toward reinstatement. The University can drop the student from all current and future classes if appropriate. Under no circumstances can a student who has been barred from attendance attend class or receive a grade.

Withdrawal from the University

Students who wish to withdraw permanently from National University must fill out a “University Withdrawal Form,” which is available at each learning center. The enrollment status of such students will be changed to “University Drop,” they will be immediately withdrawn from the University and their future classes will be deleted from their schedules. Federal student aid recipients should refer to the “Financial Aid Refund Policy” in the General Catalog.

Students with Disabilities

National University complies with the Americans with Disabilities Act of 1990 and Section 504 of the Federal Rehabilitation Act of 1973. Accordingly, qualified persons with disabilities may not, on the basis of that disability, be denied admission or subjected to discrimination in admission decisions. Further, no qualified student with a disability, on the basis of that disability, may be excluded from any academic, research, counseling, financial aid, or other post-secondary education program or activity that the University provides to all students.

Students or prospective students who want to read the complete National University Policy and Procedures, Services to Students with Disabilities, should request a copy from an adviser. Applications for accommodations for a disability may be sent to:

The Office of Scholarships and Special Services
NATIONAL UNIVERSITY
11355 North Torrey Pines Road
La Jolla, CA 92037-1011
Phone: (858) 642-8185

The California Relay Operator can be reached at 711.

Complaints Relating to Discrimination or Sexual Harassment

National University is committed to maintaining a working and learning environment in which students, faculty and staff can develop intellectually, professionally, personally and socially. Such an atmosphere must be free of intimidation, fear, coercion and reprisal. The University prohibits discrimination or harassment on the basis of race, ethnic or national origin, religion, age, sex, color, physical or mental disability, or marital or veteran status under any program or activity offered under its control.

In keeping with this commitment, the University also maintains a strict policy that prohibits sexual harassment, which includes harassment based on gender, pregnancy, childbirth, or related
medical condition and inappropriate conduct of a sexual nature. This policy applies regardless of the gender or sexual orientation of the Complainant or the alleged harasser.

It is University policy that all persons should enjoy freedom from unlawful discrimination of any kind, as well as from sexual harassment, or retaliation for reporting a complaint. This policy applies to prohibit unlawful discrimination or harassment between members of the University community, including between students and other students and between students and employees, or third parties, if the University has notice regarding or control over the third party. Individuals who engage in prohibited conduct will be subject to disciplinary action.

Grievance Procedures

The University encourages prompt reporting of complaints so that a rapid response can be made and appropriate action taken. Note that reporting a complaint need not be limited to someone who was the target of the discrimination or harassment.

The following person is designated to coordinate the University’s responsibilities under the law and to insure compliance with the University’s policies against discrimination:

Vice President for Student Services
NATIONAL UNIVERSITY
11355 North Torrey Pines Road
La Jolla, CA 92037-1011
Telephone: (858) 642-8024

Any student who feels that they have been subjected to discrimination by a student or by the University through any of its employees, contractors, entities, policies, procedures, or programs may file a complaint with the Vice President for Student Services.

The University will endeavor to maintain confidentiality to the extent permitted by law. Where the Complainant’s desire to maintain anonymity constrains the University from attempts at establishing facts and eliminating the potential discrimination, the University will attempt to find the right balance between the Complainant’s desire for privacy and confidentiality and its responsibility to provide an environment free of discrimination. The University has a duty to investigate even if the student declines to file a complaint or demand action. The University may take more formal action in cases of egregious discrimination that may require complete disclosure of all relevant facts.

Informal Procedures

Students who believe that they have been subjected to unlawful discrimination or harassment may use the following informal procedures to resolve their complaint. This process may be used as a prelude to filing a formal complaint or as an alternative and generally is completed within 30 days. It is not necessary that this option be used. Students have the right to file a formal written complaint either initially or if they believe informal resolution is not possible. Students may, at any time, elect to stop these informal procedures.

The Student Relations Coordinator in the Office of Student Affairs will provide any member of the University community an opportunity to discuss specific concerns in a confidential setting. Assistance will be provided to:

• help the Complainant understand the definition of discrimination or sexual harassment and determine if the alleged conduct would constitute discrimination or sexual harassment;
• explain the various informal and formal options available to the Complainant, including strategies for the Complainant to inform the offending party that the behavior is unlawful or unwelcome and should cease, action by an appropriate University official to stop the unlawful or unwelcome conduct and mediation; and
• identify various support services available to the Complainant.

The student may seek a resolution of the matter through discussion with the alleged offender or person responsible for the program or for enforcing the rule or procedure. The University encourages discussion between the parties directly involved in a dispute, especially in the early stages before the parties have assumed official or public positions that may polarize the dispute and make resolution more difficult. Students may seek advice about how best to approach this individual or to obtain other assistance, such as mediation, from their admissions advisor, the Office for Student Affairs, or any other appropriate campus officer.

If no resolution is forthcoming or if direct confrontation is deemed inappropriate, the student may report the incident(s) to the Vice President for Student Services or to the alleged offender’s supervisor, if appropriate.

The campus officer who is consulted will keep a written log of discussions, which in all events will be forwarded to the Vice President for Student Services. If the dispute is resolved to the satisfaction of all parties, a memorandum stating resolution of the conflict is sent to the parties and the Vice President for Student Services will monitor the situation to prevent recurrence or retaliation.

Formal Procedures

A. Filing a Written Complaint with the Vice President for Student Services:

1) The Complainant must complete a complaint form. These forms are available in the Office for Student Affairs and in all advising offices. To be processed, the complaint must be filed within 120 days of the alleged unlawful discrimination or harassment or within 120 days of the Complainant’s learning of the discriminatory or harassing action.

2) The Vice President for Student Services dates and logs all written complaints and sends the Complainant an acknowledgement that the complaint is under review.

3) If the complaint does not meet the procedural requirements, the Vice President for Student Services immediately notifies the Complainant of the specific deficiencies of the complaint. If the complaint meets the procedural requirements, the Vice President for Student Services forwards a copy of the complaint to the alleged offender or unit against which the complaint is made ("Respondent").

4) The Vice President for Student Services will arrange appropriate interim measures when warranted to protect the parties.

5) The Vice President for Student Services investigates the complaint (or the Vice President’s designee, who has been trained in the investigation of such complaints), meeting separately with the student and with others who are either named in the complaint or who may have knowledge of the facts. Generally, the investigation is completed within 30 days from the date the Vice President for Student Services receives the complaint.

On completion of the investigation, the Vice President for Student Services will prepare a report of the witness statements and the evidence and will provide a copy to each party.
Policies and Procedures

B. Next, a review panel is established as follows:

The Complainant and Respondent each nominate one student or employee who is unbiased, not involved in the complaint and willing and available to serve as a member of the panel.

The nominated panel members select, by mutual agreement, another member who will serve as chair of the panel, who will conduct the hearing and rule on procedural matters. If they are unable to agree on a chair, the Vice President for Student Services makes the selection.

C. Once the review panel is established:

The chair sets the time and place for the hearing at the earliest possible time consistent with the schedules of the parties and the panel. The date of the hearing may be postponed or extended by mutual agreement of the parties with the consent of the chair. The panel makes every reasonable effort to conduct its hearing within 14 days of the panel’s formation.

The failure of any party to appear without justifiable cause will terminate that party’s right of appeal.

The Vice President for Student Services reviews pertinent evidence and coordinates the hearing process by informing the panel of its role, defining the issues and ensuring that the panel is provided with the complaint, response, and any other appropriate information. The Vice President for Student Services serves as recorder of the proceedings and advisor to the panel, but does not vote.

The standard of review to be used in all proceedings is fundamental fairness. Strict rules of evidence and procedures are not required so long as the proceedings are conducted in a manner that allows both sides to fairly and fully explain the circumstances. Decisions regarding the admissibility of evidence and the weight to be given to pieces of evidence will be made by the chair. The burden of proof is upon the Complainant to prove his or her case by a preponderance of the evidence, which means that the proof need only show that the facts are more likely to be so than not.

The review panel proceedings will be conducted in a closed hearing. The parties will have a reasonable opportunity for oral presentation and to present written evidence. The hearing is not a legal forum and representation of parties by legal counsel is not permitted. The parties may, however, be accompanied by another member of the University community, who will act as a personal advisor with whom they may consult.

The panel will make every reasonable effort to forward its written findings to the Vice President for Student Services and to the parties within seven days after the close of the hearing.

The findings will be recorded and signed by the parties and the Vice President for Student Services, except when either party disagrees with the findings of the committee and decides to appeal. Reasonable, timely and effective action will be taken as needed to correct discriminatory effects, prevent recurrence, or remedy the Complainant’s loss, if any. These actions will be communicated to the Complainant.

In the event disciplinary action is recommended, the Respondent will be entitled to fair process provided by University rules and regulations. Only when a complaint reaches the formal process and only if it is sustained will it be recorded in the Respondent’s student or personnel file.

Appeal

A party may file a written appeal within 10 days of receipt of the findings with the Provost and Vice President for Academic Affairs. The written appeal must state the objections to the decision.

Upon receipt of the appeal, the Provost and Vice President for Academic Affairs will forward a copy to the other party(ies).

Parties can forward commentary to the Provost and Vice President for Academic Affairs within 14 days of receipt of the appeal.

Within 21 days following receipt of an appeal, the Provost and Vice President for Academic Affairs will render a final decision. Changes to these procedures may be made as needed to resolve problems. Any request for changes should be directed to the Vice President for Student Services. If the complaint is against the Vice President for Student Services or other officer involved in these procedures, the Provost and Vice President for Academic Affairs will designate a University employee to act in their place in these complaint procedures.

If the decision finds that the Complainant falsely accused another of discrimination or harassment knowingly or in a malicious manner, the Complainant will be subject to appropriate sanctions.

Retaliatory action of any kind by any member of the University community against anyone seeking redress under these procedures, cooperating in the investigation, or other participation in these procedures is prohibited and will be regarded as the basis for disciplinary action.

In cases of discrimination or sexual harassment, the complainant may, at any time during the informal or formal procedure at National University, file a complaint with:

Office for Civil Rights
U.S. DEPARTMENT OF EDUCATION
50 United Nations Plaza, Room 239
San Francisco, California 94102

The University will complete its investigation and make findings on a complaint filed at the University, even if a complaint has also been filed with the Office for Civil Rights.

Office for Student Affairs

The Student Relations Coordinator (SRC)

The Office for Student Affairs serves the National University community by advocating for accepted norms of fairness, decency and ethical behavior, adherence to the letter and spirit of National University policies, and prevention of delay, complication, and unresponsiveness in the application of University rules and processes. The Student Relations Coordinator works to fulfill the mission of the Universe by serving as an informal and impartial resource for the National University community and by acting in the following ways:

- Serving as an advisor who listens and identifies options to address the student’s problem;
- Encouraging and assisting people to resolve their own conflicts. When requested, the SRC will intervene and work with all parties to resolve a dispute;
- Identifying personnel appropriate to handle a given problem, explain National University policies, connect people with University resources and explain how the University system works;
Policies and Procedures

Contact the Student Relations Coordinator

In deciding whether to initiate contact with the SRC, it is best to view this step as a last resort to be taken only when other approaches have failed. For many problems, a normal procedure or route of appeal can be found in the University rules or policies. Academic advisors, department chairpersons, deans and directors are all, by virtue of their office, experts at handling specific types of problems and should normally be consulted first. The SRC does not take sides, but considers the rights and interests of all parties to a dispute with the aim of achieving a fair outcome. The SRC does not make, change, or set aside policies or decisions, but advocates for fairness. The SRC will not identify students or reveal their confidences without permission except when required by law. Conversations with the SRC may not be used in grievance or other formal proceedings. For help in identifying alternative courses of action please contact the Student Relations Coordinator:

Student Relations Coordinator
NATIONAL UNIVERSITY
11355 North Torrey Pines Road
La Jolla, CA 92037-1011
(858) 642-8035
src@nu.edu

Student Discipline

Students are expected to conduct themselves in a responsible manner that reflects ethics, honor and good citizenship. They are also expected to abide by the regulations of the University. It is the students’ responsibility to maintain academic honesty and integrity and to manifest their commitment to the goals of the University through their conduct and behavior. Any form of academic dishonesty, or inappropriate conduct by students or applicants, may result in penalties ranging from warning to dismissal, as deemed appropriate by the University. Students will be informed in writing of the nature of the charges against them, they will be given a fair opportunity to refute the charges and there will be provisions for appeal of a decision.

Academic Dishonesty

Academic dishonesty includes cheating, plagiarism and any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means. Below is a list of some of the forms academic dishonesty may take.

- Using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
- Submitting work previously submitted in another course without the consent of the instructor.
- Sitting for an examination by surrogate or acting as a surrogate.
- Representing the words, ideas, or work of another as one’s own in any academic exercise.
- Conducting any act that defrauds the academic process.

Plagiarism is the presentation of someone else’s ideas or work as one’s own. As such, plagiarism constitutes fraud or theft. Plagiarism or academic dishonesty in any form is a grave offense and will not be tolerated.

If an instructor determines there is sufficient evidence of academic dishonesty on the part of a student, the instructor may exercise one or more of the following options:

- Require a timed writing sample to be written on the assigned topic to determine the veracity of the suspicion
- Require that the work be rewritten
- Issue a lowered or failing grade for the assignment
- Issue a lowered or failing grade for the course
- Request formal disciplinary action by the Judicial Affairs Officer

If a student’s assignment or course grade is lowered on the grounds of academic dishonesty, the instructor must inform the student that academic dishonesty figured into the calculation of the grade. The student may exercise his/her right to appeal the grade by requesting a disciplinary hearing, convened by the Judicial Affairs Officer.

It is the instructor’s responsibility to report any reasonable suspicion of plagiarism to the Judicial Affairs Officer so that such behavior may be monitored and repeat offenders identified. Notification may be made through one’s department chair. Upon request for disciplinary action or upon repeated offenses, the Judicial Affairs Officer will initiate hearing proceedings that may result in disciplinary action such as probation, suspension, or expulsion.

Avoiding Plagiarism

Students must give credit for any information that is not either the result of original research or common knowledge. For example, it would be necessary to give credit to an author who provided an argument about the strategic importance of the Emancipation Proclamation in the American Civil War. Conversely, major historical facts, such as the dates of the American Civil War, are considered common knowledge and do not require that credit be given to a particular author.

If a student borrows ideas or information from another author, he/she must acknowledge the author in the body of the text and on the reference page. If a student borrows the words of another author, he/she must be careful to use the author’s exact words, enclose them in quotation marks and cite the source in the body of the text and also on the reference page. If students are unsure whether or not they should cite, they are encouraged to cite. They are also encouraged to ask their instructors for guidance on this issue. Students might also visit the writing centers, consult writing handbooks such as the Essential Little, Brown Handbook and for formatting questions refer to manuals such as The MLA Handbook for the Humanities, The Publication Manual of the APA for social sciences and business and The CBE Style Manual for natural and applied sciences.

Reasons for Probation, Suspension and Dismissal of Students

Students may also be disciplined for any of the following reasons:

- Academic dishonesty
- Forgery, altering University documents, or knowingly providing false information
- Disruption of the educational or administrative process of the University, by acts or expression
- Physical abuse or threat of abuse to students, University employees, or their families
- Verbal abuse or intimidation of students or University employees including shouting, use of profanity, or other displays of hostility
- Theft of University property or the property of a University employee, student, or visitor
Policies and Procedures

- Vandalism or unauthorized destruction of University property or the property of a University employee, student, or visitor
- Sale or knowing possession of illegal drugs or narcotics
- Possession, use, or threats of use of explosives or deadly weapons on University property
- Lewd, indecent, or obscene behavior on University property or by any means of communication
- Sexual harassment
- Sexual assault
- Soliciting or assisting another in an act that would subject students to a serious University sanction
- Trespassing in an area of the University where the student is not authorized to be, or failure to leave immediately an area when directed by an employee of the University
- Using University equipment or networks to violate software copyrights
- Violation of the University’s visitor policy
- Violation of any other lawful policy or directive of the University or its employees.
- Any action that would grossly violate the purpose of the University or the rights of those who comprise the University

Disciplinary action may include probation, suspension, or dismissal from the University. Students suspected of committing any violation of University policy are accorded procedures consistent with fair process typically before disciplinary action is imposed. However, in appropriate circumstances, students may be suspended prior to a hearing.

Any violation of University policy (including all forms of academic dishonesty) can result in a student being barred from graduate or professional schools at this or other universities. In addition, violating University policy can make a student ineligible for government commissions or other employment.

When a violation has occurred, an electronic incident report, including the date, time and circumstances of the alleged act, must be submitted to the Office for Student Affairs. This report includes a description of the actions of all parties involved, names of witnesses available and documentary evidence that supports the charge. Students wishing to report a violation should file the report through the Director/Associate Director of Student Services, or a full-time/associate faculty member.

Upon receipt of the report, the Judicial Officer will determine if a University policy may have been violated by the student. If there is insufficient information to make that determination, the Judicial Officer will notify the person making the report. If there is sufficient information, the Judicial Officer will contact the student.

Normally, the Judicial Officer will contact the student in writing informing the student of the charges in sufficient detail, including the time and place the alleged violation occurred and the penalty that would be appropriate if the student did in fact violate the policy. If circumstances warrant it, the student may be given the option of waiving a hearing and accepting a lesser penalty. In cases that go to a hearing, disciplinary action is determined by the hearing committee. See Hearing and Appellate Procedures below.

Hearing Procedures

Hearing committees consist of three members. The Judicial Officer appoints two members from the University faculty or administrative staff and the student selects one member from the University faculty. The Judicial Officer also designates the chairperson to conduct the proceedings and report the committee’s decision. Members of hearing committees must be unbiased and must not have had direct involvement in the case prior to the hearing.

Parties to the hearing are notified in writing of the hearing date, time, location and procedures at least seven working days before the hearing.

Hearing procedures include the following:
- A written or electronic record of the proceedings is maintained. The hearing is closed and members of the committee will take reasonable precautions to ensure that the proceedings remain confidential, unless disclosure is required by law. A scribe or technician may be present to record the minutes.
- The proceeding is not governed by formal rules of evidence or by trial-like procedures. The procedures are those used by reasonable persons conducting a serious proceeding. The chairperson rules on all procedural questions.
- The chairperson reads the charges or complaint to the committee.
- Each side presents its case.
- Members of the committee have the right to question any of the parties or witnesses.
- Parties may be advised by legal counsel, but legal counsel may not be present during the hearing.
- The chairperson may terminate a party’s right to address the committee if the party becomes abusive or persists in presenting irrelevant evidence or information.
- If either party fails to appear, the hearing will continue as if the absent party were present.
- After the hearing, the committee deliberates and renders a decision by simple majority based on a preponderance of the evidence. If the committee decides to impose a penalty, it specifies the disciplinary action to be imposed.
- The Judicial Officer and the committee chairperson send written notification of the committee’s decision and of the right to appeal it.

Appellate Procedures

Students who believe they have been wrongfully or excessively penalized may appeal the hearing decision. Such an appeal must be requested in writing within 30 days of notification of the action and must be directed to the Provost and Vice President for Academic Affairs. In order for the Provost and Vice President for Academic Affairs to convene an appeals committee, a student must establish that there is sufficient cause for such an appeal. It is the responsibility of the student to submit a clear, coherent, written statement providing the basis for the appeal, including any supporting documentation. For an appeal to be granted, the student must present:
- a reasonable possibility that the unfavorable decision was clearly wrong, given the hearing committee’s interpretation of the evidence or in the disciplinary action imposed.
- new evidence that was not available for presentation at the original hearing and which, if true, creates a reasonable probability of a different decision. In addition, a satisfactory explanation must be provided for the failure to present such evidence at the hearing.

At the discretion of the Provost and Vice President for Academic Affairs, any disciplinary action previously imposed may be suspended pending disposition of the appeal.

The Provost and Vice President for Academic Affairs will appoint a panel of three individuals from the University’s faculty, administration, or both, and will designate one of them to conduct appeal proceedings. Members of the committee must not have had direct involvement in the case prior to the appellate hearing. A meeting time is arranged within 30 days of receiving of the request for an appeal. All relevant information is then considered by the committee, including the record of the proceedings of the original hearing, written statements of the case and the testimony of any
witnesses for each of the opposing parties and any new evidence presented.

The hearing procedures for the appeal will be identical to the procedures for the original hearing (see Hearing Procedures). The appeal committee will make every attempt to render a decision within 10 working days from the date of the hearing. The committee may recommend to uphold the previous decision, mitigate sanctions, or dismiss all charges or complaints. The chairperson of the committee will send a written report of the appeal committee’s recommendation, including a description of the appeal and the rationale for its recommendation, to the Provost and Vice President for Academic Affairs. Within fourteen days of receiving the recommendation, the Vice President will send written notification of his/her decision to the student. This decision is final. All documentation for all hearings will be kept on file.

Disciplinary expulsions are noted on student transcripts. Probation and suspension are also noted on transcripts but only for the duration of the probation or suspension.

Any retaliatory action of any kind by an employee or student of the University against any other employee or student of the University as a result of that person’s seeking redress under these procedures, cooperating in an investigation, or other participation in these procedures is prohibited and will be regarded as the basis for disciplinary action.

Hearing Rights

In disciplinary, administrative, grievance and appeal hearings, parties have the following rights:

- To be present during the hearing
- To be informed of all the evidence received by the committee
- To present witnesses
- To challenge or rebut evidence or testimony presented by the opposing party
- To submit evidence on behalf of their own position.
- To make a summary argument and to respond to the argument of the opposing party
- To bring another person to the hearing as support or as a spokesperson.

Grade Appeals

Faculty members are vested with the authority to establish course requirements and standards of performance. It is the responsibility of faculty to articulate and communicate course requirements and standards of performance to students at the beginning of each course and apply all grading criteria uniformly and in a timely manner. Final grades submitted by faculty to the Registrar’s Office are presumed to be accurate and final.

Grounds for a Grade Appeal

Students can appeal a grade only when they can document that one or a combination of the following has occurred:

- An error in calculating the grade
- Failure of the instructor to notify students clearly and promptly of the criteria for grade determination
- Assignment of a grade based on reasons other than the announced criteria and standards
- Assignment of a grade based on factors other than student achievement, e.g., prejudice or discrimination
- Inconsistent or inequitably applied standards for evaluation of student academic performance

- If the student believes that the grade received is based upon unlawful discrimination, or sexual harassment, as defined in these policies and procedures, the student should proceed under the procedures in this catalog for “Complaints Relating to Discrimination and Sexual Harassment.”

The Appeal Process

When students believe that they have grounds for appealing a grade issued by an instructor because of an occurrence of one or more of the above mentioned circumstances, the following procedures must be followed:

The student must submit a written appeal to the School Dean within 45 days of the end date of the course. The student must provide in writing evidence that demonstrates the occurrence of one or more of the above-listed grounds for appeal, along with evidence of the student’s level of achievement in support of the particular grade that the student believes he/she should have been awarded. If the evidence meets the criteria, the dean forwards the student’s written statement to the instructor for a response, which the instructor must provide within 15 days. The dean then refers all documentation to the grade appeals committee.

Grade Appeals Committee

A standing committee within each school in San Diego, the grade appeals committee consists of three faculty members (full-time or associate) appointed by the appropriate school dean. The grade appeals committee considers the documentation and may decide either to change or uphold the grade.

The grade appeals committee will render a final decision within 30 days of receiving the grade appeal information from the dean. This decision is forwarded to the dean who informs the student, the instructor and the Registrar’s Office of the decision in writing.

The decision of the grade appeals committee on these matters is final and cannot be appealed.

General Policies and Procedures

Non-Degree Students

A limited number of applicants are allowed to enroll as non-degree students. Non-degree student applicants must follow the usual admission procedures, establish academic qualifications to enter the courses desired and remit the customary tuition and fees. Admission as a non-degree student neither implies nor assures acceptance as a degree candidate. Non-degree students are permitted to enroll in no more than six courses (27 quarter units). Students requesting an exception must submit a statement to the Committee on the Application of Standards.

Auditing Courses

To audit a course, a person who is not a current student must complete an admission application with an admissions advisor and register for the course. Current students must register for the course. Approval to audit is given on a space-available basis. Students auditing a course must pay the regular fees and tuition for the course and participate in class activities, but are not required to take examinations. No course credit is awarded to the student, nor is a permanent record maintained.
Visitors

No one may visit the classroom during class hours without the prior approval of the instructor and the director of student services at the site. Students may not bring children to the classroom or computer lab or leave them at any other University facility while attending class. Violations may result in disciplinary action.

Animals on Campus

Animals, other than trained service animals for persons with disabilities, are not permitted in a University facility. Violations may result in disciplinary action.

Library Borrowing Privileges and Fines

All National University students, faculty and staff are eligible to borrow library materials. NULS library cards are required to borrow items and are available from the libraries at no charge. Online registration is also available through the library’s Web site at www.nu.edu/library.

Books, pamphlets and annual reports may be checked out for a period of four weeks. Reference books and periodicals may not be checked out. Copy machines are available for photocopying such materials. Instructor’s print-reserves may circulate for brief periods of time as determined by the instructor.

The late fee for overdue books and annual reports is $0.20 per day, per item. The late fee for instructors reserve is $0.50 per day, per item.

Materials not returned to the library are considered lost. The borrower is responsible for the replacement cost of the materials, plus a nonrefundable fee of $10.00.

Audio-visual materials may be checked out by faculty for classroom use only and can be previewed in advance. Students may also view audio-visual materials at their local Library Information Center by placing an advanced request through their library representative. All media booking requests must be placed three working days prior to the date needed.

Accelerated Study/Maximum Number of Units

Students with a superior academic record and a compelling, demonstrated need may petition the school dean for an accelerated study, meaning they will be enrolled in more than 7.5 quarter units in the same month. The granting of an accelerated study is wholly at the dean’s discretion. With the exception of certain approved programs, applications for acceleration must be approved a month in advance by the school dean. To be eligible, students must have:

1) Completed 13.5 quarter units at National University prior to the request
2) Maintained a 3.5 grade point average for undergraduates and a 3.7 for graduates
3) Completed all prior coursework with no outstanding grades of “Incomplete”
4) Maintained a current account balance, i.e., the balance should not exceed the current month’s tuition. Note: This requirement can be waived if the student has an approved financial aid packet in the Financial Aid Office or an approved company-reimbursement plan on file in the Student Business Services Office.
5) Demonstrated a compelling, exceptional need
6) Approval to take more than 18 units in a quarter requires advance approval from the Committee on the Application of Standards. Under no circumstances are students approved to accelerate their studies every month.

Students who believe they meet the above requirements should submit their application well in advance of the anticipated course date because processing time is six to eight weeks.

Additional Considerations:

• With regard to summer intensive programs, students who wish to accelerate may take either a summer intensive course with an evening course or two summer intensive courses in the same month, provided that they meet the above criteria.
• Students in credential programs in the School of Education who have a GPA of 3.0 may take a regular evening course while doing student teaching, provided they meet the rest of the criteria for accelerated study. Students approved to accelerate their studies will be limited to register for two of the following courses concurrently while student teaching. For multiple subjects: TED 621B, TED 622A, or TED 622B. For single subject: TED 625A, TED 625B, or TED 624.

Independent Study

Independent study is a catalog course taught independently to one student. Not all courses in the catalog are approved for independent study. Under certain conditions and circumstances, students may be approved to take a course through independent study. Convenience or the desire to graduate early are not considered valid circumstances. Approval for an independent study is at the discretion of the school dean. Students who believe they have a justifiable reason for an independent study should submit their paperwork well in advance of the anticipated start date because processing time is six to eight weeks.

To be considered eligible to apply for an independent study, ALL of the following conditions must be met:

1) The course must be approved for independent study
2) The student must be matriculated
3) The student must have completed 13.5 quarter units in residence with a grade point average of 3.0
4) The student must have no grades of “Incomplete” at time of application
5) The student must have no more than one other independent study at the current degree level
6) The student must have a current account balance

Students taking an independent study course are expected to meet all of the course competencies and are evaluated according to criteria similar to those employed in normal offerings of the course (i.e., written examination and/or a substantive, interpretive research paper).

If students meet all of the above conditions, they should take the following steps:

1) Request an Application Form for Independent Study from the Director of Student Services at their local campus. Students who are determined eligible to submit an application to the school dean are mailed a certified copy of the Application for an Independent Study along with a copy of their class schedule.
2) Write a letter describing the special circumstances that necessitate an independent study.
3) Submit the letter of justification, the certified Application for an Independent Study and their class schedule to the appropriate
school dean (School of Arts and Sciences, School of Education, School of Engineering and Technology, or School of Business and Information Management) for consideration.

If the school dean approves the requested independent study, an approved instructor is assigned to prepare the terms of the contract. After the contract terms have been finalized, the student and the instructor sign the contract, which is then formally approved by the appropriate full-time faculty member and the school dean. The signed contract is forwarded to the Office of the Registrar for entry into the student’s computer record and tracking. Work on the independent study cannot begin until the student and the instructor have received their copies of the approved contract with all required signatures. The length of an independent study may range from 27 to 60 days.

Students who are not approved by the school dean to do an independent study are notified by the dean. Students may not withdraw from independent study contracts; however, an instructor may grant an extension if it seems warranted. If an instructor submits a grade of “Incomplete,” the instructor must also notify the Office of the Registrar of the date of the extension. “Incompletes” not removed before the time limit become permanent grades of “F.” Standard tuition charges apply to independent studies.

Guided Study

Guided study is an individualized course that deals with material not covered in any approved catalog course. Guided study course numbers are XXX 490 or XXX 690. Students in guided study courses work independently under the guidance of an instructor. Guided studies follow the same approval process as independent studies and must meet the eligibility requirements as indicated under the independent study section. Requests should be made well in advance of the start of the guided study.

Special Study

Special study is a regularly scheduled course that, for administrative reasons, must be retitled, renumbered, or assigned a different number of units in order to meet the graduation requirements of an individual student. Special studies follow the same approval process as independent studies.

Change of Academic Program

Students may apply for a change of academic program at any time, provided they are not disqualified from their current program. Application for such a change does not, however, mean automatic acceptance into the new program. Official acceptance into the new program occurs only when students are re-matriculated. Students on probation must submit their request for a change of program to the Committee on the Application of Standards for approval. Students must keep in mind that courses taken in the program they are exiting might not apply toward the program they are entering. The third and any subsequent application for a change in program must be accompanied by a letter of intent that must be approved by the Committee on the Application of Standards. Such letter should explain the reason for the change along with the plan for completion.

Practica, Internships, & Residencies

Students may be required to take practical training courses in the form of internships, practica, or residencies depending on the academic discipline in which they are enrolled. This training may be accomplished at National University facilities or at off-campus locations, depending on the specialty being pursued. All such courses share certain common elements including:

- Students must register in advance
- University instructors are responsible for developing course requirements and supervising the progress of students
- Regular meetings between students and instructors provide opportunities for guidance and evaluation. These interactions are generally held on a weekly basis.
- Practical training experiences require significantly more time than a regular course.
- Students are evaluated on their progress and assigned either a letter grade or a satisfactory/unsatisfactory grade, as determined by the appropriate academic department. A satisfactory grade is considered equivalent to a "B" grade or better for student teaching and graduate level courses, or a "C" grade or better for undergraduate courses. The satisfactory grade is not calculated into the student’s GPA.
- All practica, internships, or residencies are granted full credit toward graduation, do not extend degree requirements and are mandatory in several degree and credential programs.
- Student teaching field experience does not grant graduate credit, but is required for degree conferral as part of a joint master’s/credential program.
- Standard tuition charges apply.
- Students who do not complete practica, internships, or residencies in the time allotted are issued a grade of “Incomplete.” If students do not clear the “Incomplete” within the time specified, they can file for an extension with their professor, who in turn files the extension with the registrar’s office. Students who fail to complete the course at the end of the extension receive the grade of "F" or “U.” No second extension can be given.

Students should consult the degree program requirements in this catalog for further information. Veterans should contact the Veterans Affairs office at National University to determine how enrollment in such courses may affect benefits.

Concurrent Enrollment at Other Institutions

After students are admitted to National University, all courses leading to an associate, credential, bachelor’s degree, or master’s degree must be taken at National University unless written approval to take coursework at another institution is given in advance by the Office of the Registrar. Credit earned at another institution without such prior approval might not apply toward an academic program at National University. To qualify for concurrent enrollment, students must:

1) Be matriculated and have a DARS Report or a Notice of Matriculation
2) Not exceed the maximum number of units authorized by the University for each term
3) Maintain a 2.0 grade point average in undergraduate studies or a 3.0 grade point average in graduate studies
4) Submit a “Request for Concurrent Enrollment” accompanied by a course description to the Office of the Registrar
5) Request that an official transcript be sent directly to the Office of the Registrar upon completion of the approved course(s)
6) Be in good financial standing
7) International students must complete 13.5 units prior to concurrent enrollment approval
8) Concurrent enrollment requests must be received no later than two weeks prior to the enrollment date
Student Records

Transcripts and other documents received by the University for the purpose of admission or recording supplemental work become the property of the University and will not be released or copied. Even though California regulatory agencies require that student records be kept for only five years, National University’s student records are retained indefinitely.

Grade Reporting

All grades are reported electronically. Students access their grades via the University’s Web site (www.nu.edu/mynu). Students who need an official printed copy of a grade report can request one through the Web site. The report will be generated automatically and mailed the next day. Grades are not given over the telephone or by a personal visit to the Office of the Registrar. Although it is requested that instructors submit grades within ten working days, due to the varying requirements of each course, instructors are allowed a reasonable time to submit grades. Grades are reported only for students officially registered in a class. Students should direct questions regarding the accuracy of a grade to their instructor.

Granting Credit

National University grants credits in quarter units and each course is normally 4.5 quarter units of credit. A course at the undergraduate level requires 45 hours of classroom instruction. A course at the graduate level requires 40 hours of instruction. Courses that are less than 4.5 quarter units meet for the proportionate number of hours, unless otherwise stipulated. University policy for granting credit for previous related course work is discussed in the section governing the various degree programs.

Transcript Requests

Students should direct requests for transcripts to the Office of the Registrar. Due to the requirements of the Family Educational Rights and Privacy Act of 1974, as amended, all requests for transcripts must be submitted in writing and include the student signature and either the student’s identification number or social security number. The University will not release transcripts without written authorization from the student.

Transcript request forms for academic and continuing education programs are available on National University’s home page. The forms are located at www.nu.edu/registrar. Students requesting a transcript must complete all sections of the appropriate transcript request form. Students must specify if they are requesting a standard academic transcript or a continuing education transcript, and fax it to the Office of the Registrar, (858) 642-8718. Incomplete forms are not processed.

The Registrar issues transcripts and other official documents only after students have settled all financial obligations to the University. All records and services are withheld from students who have any outstanding financial obligations to the University or who have defaulted on a Title IV loan at the University. Transcripts contain only course work completed at National University. Upon matriculation, a summary of previous education is entered into the official transcript of record.

Full-Time Student Status

Undergraduate students or post-baccalaureate students pursuing a credential must meet one of the following requirements to obtain “Full-Time Student Status:”

- 12 units per quarter in any three-consecutive-month period
- 18 units in any six-consecutive-month period, providing there is no three-consecutive-month break in attendance during the six months

Graduate students must meet one of the following requirements to obtain “Full-Time Student Status:”

- 9 units per quarter in any three-consecutive-month period
- 13.5 units in any six-consecutive-month period, providing there is no three-consecutive-month break in attendance during the six months

The units for any class with a “Withdrawn” status do not count toward determining full or part-time status. Students who do not attend for a quarter (three-consecutive-month period) are considered to be “Withdrawn” for that time period. Students with proper identification can verify enrollment at the public information area of the Office of the Registrar, (858) 642-8260. Verification can also be requested through the mail with an authorized student signature.

Note: Off-campus agencies may use different definitions for determining full-time status. For example, the above definition of “Full-Time Student Status” may not apply to international students who require an F-1 visa.

Transfer of Credits to Other Institutions

Each institution has policies that govern the acceptance of credit from other institutions. Accreditation by one of six regional accrediting associations is the normal and primary criterion for making such determinations. National University is accredited by the Western Association of Schools and Colleges (WASC). Generally, credits and degrees from National University have been accepted by transfer institutions. Students who are anticipating a transfer, or advanced studies, are encouraged to contact such institutions directly to determine how National University credits will relate to the requirements of those institutions.

Memorandum of Agreement

Undergraduate and graduate students who must transfer from the area served by National University for work reasons and who are within one full quarter of completing their studies, may satisfy remaining course work with pre-approved transfer credit. Prior to withdrawal from the University, students must submit a written request for a Memorandum of Agreement to the Office of the Registrar for approval by the Committee on the Application of Standards. Upon Committee confirmation, the Office of the Registrar provides written verification of course work approved for completion at a regionally accredited institution.

(SOC) Servicemembers Opportunity College Agreement

National University is a member of Servicemembers Opportunity Colleges (SOC) and participates in the SOCNAV, SOCMAR and SOCAD associate and bachelor’s degree programs for Navy, Marine Corps and Army personnel and their adult family members. The SOC network programs provide active duty personnel with a means to earn an undergraduate degree from National University if transferred before completion of the required course work.

National University issues a SOCNAV or SOCMAR Student Agreement to every active-duty service member who enrolls, provided that the University has received all transcripts and other required documents such as the DD295 or Smart Transcript, and that the student has satisfactorily completed one 4.5-quarter unit course in residence. Service members who enrolled prior to January 1, 1999,
who wish to obtain such an agreement, must submit a written request to the Office of the Registrar for an official evaluation, provided all required documents are on file. National University extends the Student Agreement process to service members of all military branches and their adult family members.

Participation in the SOCNAV or SOCMAR network system begins when a Student Agreement is issued. This agreement guarantees that National University will accept transfer credit from SOC member colleges and will confer the undergraduate degree upon successful completion of all academic requirements. A SOCNAV or SOCMAR Student Agreement is valid for a period of seven years. To be eligible for an associate or bachelor’s degree from National University under the terms of the Student Agreement, students must complete at least 18 quarter units in residence at National University. Military students should contact the Transfer Specialist in the Office of the Registrar for further information.

Approval for the Training of Veterans

National University is approved for the training of veterans under Title 38 of the U.S. Code, Chapters 30, 31, 32, 34 and 35. The University is also authorized for active duty tuition assistance.

National University notifies the Veterans Administration within 30 days upon a change of status of any veteran or eligible person who ceases to make satisfactory progress.

Family Educational Rights and Privacy Act of 1974 (FERPA)

National University maintains all student records in accordance with the provisions of FERPA as amended. FERPA affords students certain rights with respect to their education records. They are:

- The right to inspect and review the student’s education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- The right to request an amendment of the student’s education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official acts in any of the following capacities: is performing a task that is specified in his or her position description or contract agreement, related to a student’s education or to the discipline of a student: providing a service or benefit relating to the student or the student’s family (e.g., counseling, job placement, financial aid, etc.); or maintaining the safety and security of the campus. Upon request, the University may disclose education records without a student’s consent to officials of another school in which that student seeks or intends to enroll.
- The right to file a complaint with the U.S. Department of Education concerning alleged failures by National University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:
  
  Family Policy Compliance Office  
  U.S. DEPARTMENT OF EDUCATION  
  400 Maryland Avenue, SW  
  Washington, DC 20202-4605

Directory information at National University is limited to the following public information:

- Name of student
- Date of birth
- Major field of study
- Dates of enrollment
- Degrees and dates conferred
- Academic honors and awards received
- Addresses, telephone numbers and e-mail addresses of alumni (students who have graduated from an academic program or who have completed a credential program)
- Any other personal information voluntarily provided by alumni to be distributed to other alumni

Social security numbers may be used for verifying or locating addresses and phone numbers of alumni and students, but will not be published in a directory.

If students do not want the University to release directory information, they have thirty days from the date of enrollment to request that a “Privacy Act Lockfile” be placed on their records. For more information, students should contact the Office of the Registrar at (858) 642-8260. Particular questions with respect to a student’s rights under FERPA should be directed to the Office of the Registrar.

Committee on the Application of Standards/Exceptions to Academic Regulations

Students can request an exception to a published University academic policy by submitting the request to the Committee on the Application of Standards. Students must make such a request through their admissions advisor. Students must submit documentary evidence in support of each written request. Each case is decided upon its own merits and the decision of the committee is final and not subject to appeal, unless there is information pertinent to the outcome which was not available to the student at the time of the initial request. Any appeal to review a committee decision must include additional information and must be submitted in writing to the committee coordinator in the Office of the Registrar in order to be reconsidered by the Committee.
Policies and Procedures

Finance Committee

Students who want to dispute the interpretation of a University financial policy, or who seek special consideration regarding a financial matter, can appeal their case to the finance committee.

Requests must be submitted in writing through the Student Accounts Office and must contain all pertinent information to support the appeal. All financial disputes must be submitted within one year of occurrence. Each case is decided upon its own merits. The decision of the committee is final and not subject to appeal, unless there is information pertinent to the outcome which was not available to the student at the time of the initial request. Appeals must be submitted in writing through the Student Accounts Office.

Computer Lab Regulations

Computer labs are available at many University locations for use by students, faculty and staff. Lab assistants are available at each location to ensure availability and operability of computing resources and to ensure that the resources are used appropriately. By using any National University Computer Lab, students agree to comply with the computer and Internet access policy and additionally agree to follow the following regulations:

1) Students must sign in to use the facilities. They may be asked to show University identification.
2) Students may not install privately owned or acquired software on University computers. Software copyrights are strictly enforced. The Computer Software Policy provides complete details.
3) Students may not bring food or drink into the labs.
4) Students may use computing resources for University-related purposes only.
5) Students should minimize their use of lab printers. They should make multiple copies of large documents using a copy machine rather than the lab printer. The lab assistant has the right and responsibility to limit printing based on overall requirements.
6) When using computers with multimedia/speakers attached, students should adjust speaker volume in a manner that will not disturb other lab users.

The lab assistant has the right to ask students to leave for non-compliance with any of the University’s regulations. Questions of a technical nature, reports of equipment failure, or disputes should be reported to the MIS Help Desk line at (619) 563-2MIS (2647) for resolution.

Lab hours are posted at each facility and are subject to change as required to support class scheduling requirements and holidays. It is the lab user’s responsibility to become familiar with the schedule. The computer labs close promptly at the scheduled closing times.

Computer Software and E-mail Policies

The Copyright Law of the United States (Title 17, United States Code) governs the making of copies of copyrighted software. Copyright infringement could subject the violator to civil damages and criminal penalties, including a fine or imprisonment.

University policy further prohibits any use or copying not authorized by the purchase agreement or license under which the university acquired the software. A copy of such agreement is available for inspection at the office of the director, Information Technology.

Unauthorized use or copying may subject employees, faculty and students to disciplinary action.

Students may not use the e-mail addresses of other students, faculty, or staff for purposes unrelated to the University. Violations may lead to disciplinary action.
# Academic Information for Undergraduate Degrees

Defining the Future of Higher Education for Adult Learners

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>58</td>
<td>Academic Information</td>
</tr>
<tr>
<td>58</td>
<td>Admission</td>
</tr>
<tr>
<td>58</td>
<td>The AIME Program</td>
</tr>
<tr>
<td>59</td>
<td>Provisional Status Admission</td>
</tr>
<tr>
<td>59</td>
<td>Matriculation</td>
</tr>
<tr>
<td>60</td>
<td>Degree Audit Reporting System (DARS)</td>
</tr>
<tr>
<td>60</td>
<td>Sources of Credit</td>
</tr>
<tr>
<td>61</td>
<td>Course Waivers and Challenge Exams</td>
</tr>
<tr>
<td>62</td>
<td>Grades and Grading System</td>
</tr>
<tr>
<td>63</td>
<td>Satisfactory Academic Progress</td>
</tr>
<tr>
<td>63</td>
<td>Graduation Requirements for Undergraduate Degrees</td>
</tr>
<tr>
<td>65</td>
<td>Application for Graduation</td>
</tr>
<tr>
<td>65</td>
<td>Degree Conferral</td>
</tr>
</tbody>
</table>
Academic Information for Undergraduate Degrees

Familiarity With University Regulations

When signing an enrollment agreement, students acknowledge receipt of the current catalog and agree to abide by the policies, rules and regulations of the University. When Internet students check the box on the online agreement constituting a virtual signature, they acknowledge that they are bound by the policies, rules and regulations of the University, which can be found in the catalog at its Web site (www.nu.edu). This publication includes academic standards and a listing of the courses required for graduation.

Ignorance of or lack of familiarity with this information does not serve as an excuse for noncompliance or infractions. The University provides assistance in the form of academic advising, but students are responsible for meeting the published requirements of their respective programs.

Admission

In addition to the general admission requirements, applicants for admission to an undergraduate degree program must meet the following requirements:

1) High school graduates applying for enrollment at National University must have a high school GPA of 2.0.

2) Applicants must submit evidence of their ability to benefit from the University’s educational program. Such evidence can include any or all of the following: the student’s academic record in other institutions, test scores, interviews, professional experience, motivation and educational objectives.

3) Applicants who have completed fewer than 90 quarter (60 semester) units of transferable college credit must have graduated from high school, passed a high school-level G.E.D. test (standard score for each section must be at least 40 with an overall score of 225), or received a Certificate of Proficiency from a State Department of Education to be granted admission on “Provisional Status.”

4) High school graduates transferring from regionally accredited colleges and universities are admitted as degree students if their cumulative grade point average is 2.0 (C) or better. Applicants with a grade point average below 2.0 may be admitted on probation if the Committee on the Application of Standards determines that there is sufficient evidence of potential to complete college studies.

5) Applicants must also:
   a. Complete an application for admission
   b. Execute an enrollment agreement
   c. Pay an application fee of $60
   d. Complete the requisite parts of the Accuplacer evaluation process.

The Committee on the Application of Standards must approve any exceptions to the above admissions requirements.

Placement by Evaluation

Mathematics and English Evaluation

All entering undergraduate students take the ACCUPLACER mathematics and English evaluation as part of the admissions process. The results of the evaluation are printed immediately and copy is provided to students.

Students must take ACCUPLACER within 30 days of admission. Because this placement test is so important for academic success, students who do not take Accuplacer will be temporarily restricted from further attendance at the University until they do.

First-time undergraduate students can take the ACCUPLACER evaluation tests once at no charge. Subsequent evaluations can be repeated after 14 days for a $5 fee a maximum of 3 times.

Mathematics Placement

Students who have met the highest mathematics requirement in their degree program can transfer credit for equivalent courses, if a grade of “C” or better was received. Students who are required to complete mathematics course work can transfer credit for equivalent courses, if a grade of “C” or better was received and the courses were completed within five years before beginning studies at National University. All other incoming undergraduate students are placed into AIME, unless they demonstrate the level of proficieny needed to enter required mathematics courses through ACCUPLACER.

English Placement

Students who are required to complete English course work can transfer credit for equivalent courses, if a grade of “C” or better was received and the courses were completed within five years before beginning studies at National University. Proficiency at the level of Area A1 English found in the general education section is required to transfer in English course work over five years old. All other incoming undergraduate students are placed into AIME, unless they demonstrate the level of proficieny required to enter Area A1 English as defined in the general education section.

Students with transferable units under five years old in collegiate mathematics or English whose scores indicate a need for AIME are recommended to take AIME before entering required courses.

The AIME (Assisted Instruction in Mathematics and English) Program

Program Purpose and Population Served

The Assisted Instruction in Mathematics and English (AIME) Program provides online and onsite developmental courses in mathematics and English that are augmented by teaching assistance with the purpose of broadening access to higher education. The program is designed to strengthen the basic skills of returning and adult students so that they have a greater chance of academic success in the undergraduate or graduate degree program of their choice.

Students may take the English and mathematics AIME courses simultaneously.

Note: Instructors may refer students who entered the university prior to
Catalog 65 to take ACCUPLACER. If the placement scores of these students indicate a need for AIME, they are recommended to take the appropriate AIME course(s) concurrently with their program courses.

Students are encouraged to move as rapidly as possible through the modules in order to expedite their entry into baccalaureate courses. On successful completion of AIME, students should enroll immediately in required program courses in mathematics and English.

**Curriculum Requirements**

The placement scores from ACCUPLACER determine the AIME courses students must take. Some students will take only English or Mathematics; others will take both. Students take only those modules within the courses for which the placement scores indicate a need. Students must pass required AIME courses with a grade of “S” before completing the program.

There is an entrance fee of $295 for enrolling in either the AIME program for English or the AIME program for mathematics. Upon payment of the fee, students may take as many AIME courses as needed within that AIME series. AIME courses do not grant academic credit.

**AIM 080 Assisted Instruction in English**

A mandatory course for students whose placement scores indicate a need for review of writing essentials. Introductory course in the basics of sentences, paragraphs and essays to prepare students for the Area A1 English requirement listed in general education. Taken by referral or placement. S/U grading only.

This is an online course with sixteen modules. Students are placed in the appropriate module based on the placement scores.

| Modules 1 - 8 | Basic Writing |
| Modules 9 - 16 | Introduction to Composition |

The maximum time for each module is one week. Students who begin with Module 1 must complete the course within sixteen weeks; students who begin with Module 9 must finish within eight weeks. Students who score into Module 9 may request to begin on Module 1 and adjust their deadline to sixteen weeks.

**AIM 090 Assisted Instruction in Mathematics**

A mandatory course for students whose placement scores indicate a need for review of essentials in mathematics. Introductory course in the basics of mathematical concepts to prepare students for college-level mathematics. Beginning with arithmetic skills (real number representation and use, grouping symbols and word problems), the course progresses through basic algebra (methods of simplifying algebraic expressions, solving equations and inequalities, operations with exponents, monomials and polynomials and translating statements to symbols, analytic geometry, functions, sequences and series) and concludes with the fundamentals of two-dimensional geometry. Taken by referral or placement. S/U grading only.

This is an online course with 20 modules. Students are placed in the appropriate module based on the placement scores.

| Modules 1 - 4 | Pre-Algebra |
| Modules 5 - 8 | Beginning Algebra I |
| Modules 9 - 12 | Beginning Algebra II |
| Modules 13 - 16 | Intermediate Algebra |
| Modules 17 - 20 | Plane Geometry |

Students may progress through the series at their own pace, though the maximum time for each module is two weeks. Students who begin with Module 1 must complete the course within forty weeks; students who begin with Module 17 must finish within eight weeks. Students may request to begin on an earlier module and adjust their deadlines accordingly. Students are encouraged to move as rapidly as possible through the modules in order to expedite their entry into baccalaureate courses. AIME courses grant 1.5 quarter units of continuing education credit.

**Provisional Status Admission**

National University admits applicants to an undergraduate degree program on “Provisional Status” if the official documents required to determine eligibility for admission, transfer credit, or advanced standing are not immediately available. To be admitted on “Provisional Status,” applicants must provide preliminary documentation of prior education even if the records are not official. When the University receives the required official documentation, students are considered for matriculation. Applicants are advised at their initial interview with an advisor that their degree plan may require changes following an evaluation of official transcripts and any other pertinent documents.

Undergraduate students may complete only three courses on ‘Provisional Status’ to provide time for receipt of official transcripts from each college attended, CLEP scores, official military documents, high school transcripts, G.E.D. or high school proficiency certificates, and/or other documents required for matriculation. If the Office of the Registrar does not receive all required documentation within three months of the start of the first class, the students must temporarily interrupt studies until the registrar receives all official documents. Coursework completed satisfactorily while on “Provisional Status” counts toward graduation if it is consistent with specific degree program requirements.

**Note:** Students must complete the ACCUPLACER evaluation process in order to qualify for “Provisional Status.”

**Undergraduate Provisional Status**

Prospective students who are ineligible for admission must apply to the Committee on the Application of Standards. If the committee determines that there is sufficient evidence of potential to complete college studies, it will admit the student on “undergraduate provisional status” for a specific number of courses in which the student must perform satisfactorily. Upon satisfactory completion, the student will be officially admitted to the university.

**Matriculation**

Matriculation is the official determination of the required course of study for a student’s degree and is the final step in the admission process. After the Office of the Registrar receives all official transcripts and other documents required for admission, students who have been accepted as candidates for a degree or credential are matriculated. The course of study that a student discussed with an advisor at the initial admissions interview is only an estimate of the course requirements for a degree or credential. Upon matriculation, the Office of the Registrar notifies students of the specific courses required to fulfill the requirements for a degree or credential. This notice guarantees that a student will not be required to take additional units unless studies are interrupted for a period of 12 or more months or if a student decides to change their academic program.
Academic Information for Undergraduate Degrees

Applications for financial assistance cannot be certified until matriculation has occurred. Federal regulations require the University to determine the length, specific courses and course level before proceeding to the award of financial aid.

**Sources of Credit**

**Transfer Credit**

National University accepts credits from regionally accredited institutions if they apply to the student’s degree program. National University accepts transfer credit if the courses meet the standards of the University and if the courses were completed satisfactorily. Transfer students do not receive credit for courses with a “D” grade. Transfer students must have been in good standing and eligible to return to the last institution in which they were enrolled. If the student is seeking admission following attendance at an institution that is not regionally accredited, the Committee on the Application of Standards considers the transfer credits on an individual basis.

In addition to credit earned at an accredited college or university, students may be given credit for certain non-collegiate learning experiences. All credit must be determined and evaluated by the Office of the Registrar on a case by case basis. The following guidelines apply in allowing credit for previous education:

**Collegiate**

The maximum number of lower-division credits acceptable for transfer to an associate degree program is 58.5 quarter units (39 semester units). For a bachelor degree program, no more than 103.5 quarter units (69 semester units) are allowed.

The maximum number of upper-division credits acceptable for transfer is 40.5 quarter units (27 semester units). Exceptions to this policy are determined by the Committee on the Application of Standards. A total of 22.5 quarter units (15 semester units) may be accepted from the extension division of a regionally accredited university. Up to 9 quarter units (6 semester units) are allowed for correspondence courses from a regionally accredited institution. In either case, only credits that the previous institution accepts toward degree requirements are transferable.

The maximum credit allowed in transfer for vocational/technical courses is 18 quarter units (12 semester units). For basic skills courses, only credits that the previous institution accepts toward degree requirements are allowed for transfer.

Credits from institutions of collegiate level that are not regionally accredited may be rejected entirely, accepted wholly or in part, or accepted on a provisional basis to be validated by satisfactory course work in residence. Students who are accepted from such institutions on a provisional basis must petition for credit after completing 13.5 quarter units in residence with at least a 2.0 (C) average. To receive credit, students must forward petitions, an official transcript and a course syllabus to the Committee on the Application of Standards.

**Non-collegiate**

The maximum number of credits acceptable for non-collegiate learning is 58.5 quarter units (39 semester units) for an associate degree, with a cumulative total of 67.5 quarter units (45 semester units) for a baccalaureate degree. The credits may be from the following sources:

- A maximum of 67.5 quarter units (45 semester units) may be earned at the lower-division level by CLEP examinations.
- No more than 22.5 quarter units (15 semester units) may be earned for:
  1) DANTES independent study/credit-by-examination courses
  2) ACT PEP. Regents College Examinations
  3) Credit recommended in the National Guide to Credit Recommendations for Non-Collegiate Courses (American Council on Education [ACE]) or the Directory of the National Program on Non-Collegiate Sponsored Instruction (PONSI).
  4) Local, state and federal law enforcement training recommended by ACE or PONSI and such credit as is listed on a transcript from a regionally accredited college.
- A maximum of 22.5 quarter units (15 semester units) may be allowed for departmental examinations at National University.
- A maximum of 45 quarter units (30 semester units) may be allowed for military experience and military schools that have been evaluated by ACE.
- A maximum of 45 quarter units (30 semester units) of lower-division credit may be allowed for clinical courses for a registered nurse who is a graduate of a three-year hospital nursing school. Up to 22.5 quarter units (15 semester units) of additional lower-division credit may be granted for academically equivalent coursework.
- Students may not take the CLEP Foreign Language exam if the subject is their native language.

**CLEP College Level Examination Program**

**General Examinations**

The University awards credit for successful completion of CLEP general examinations to meet general education requirements. The mathematics general examination does not earn credit for any specific general education mathematics requirement. Therefore, it is recommended that students complete the mathematics evaluation prior to taking the mathematics CLEP exam. English CLEP completed over five years ago will not be transferred without ACCUPLACER proficiency at the Area A1 English General Education level.

Students who plan to use their CLEP scores for purposes other than earning a degree at National University, such as transferring to another institution or establishing eligibility for law school admission, should take a nationally administered CLEP examination. Students can obtain a CLEP Registration Bulletin from an admissions advisor. This bulletin lists the testing dates and location of all CLEP testing centers in the U.S.

**CLEP Subject Examinations**

Credit for successful completion of CLEP subject examinations can be applied to meet general education, preparation for the major, or general lower-division elective credit. With the exception of the French, German, Spanish and Introduction to Accounting examinations, 4.5 quarter units of credit are awarded for each subject examination passed according to ACE guidelines. The French, German, or Spanish language examinations can award up to 18 quarter units and Introduction to Accounting can award up to 9 quarter units of credit.
Academic Information for Undergraduate Degrees

CLEP General Examination

<table>
<thead>
<tr>
<th>English Composition</th>
<th>General Education Area A</th>
<th>Category 1 &amp; 2 - Writing</th>
<th>(9 quarter units required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>General Education Area D</td>
<td>Humanities, Literature and Fine Arts</td>
<td>(9 quarter units required)</td>
</tr>
<tr>
<td>Social Science</td>
<td>General Education Area E</td>
<td>Social and Behavioral Sciences</td>
<td>(9 quarter units required)</td>
</tr>
</tbody>
</table>

Note: Effective July 1, 2002 the Educational Testing Service only makes available CLEP Subject Matter Examinations. However all General CLEP Examinations taken prior to this date are accepted in transfer up to a maximum of 27 quarter units or 18 semester hours. General CLEP examinations can only be applied to the General Education area.

DANTES Defense Activity for Non-Traditional Education Support

DANTES Subject Standardized Tests (DSSTs) demonstrate college-level learning acquired outside of the college classroom. The tests cover material usually taught in one-semester or one-year, post-secondary courses. Credit for successful completion of DSSTs can be applied toward general education, preparation for the major, or general elective credit. Most tests grant three semester units (4.5 quarter units) of credit. The total number of units awarded for subject exams cannot exceed 22.5 quarter units (15 semester units).

DSST tests are available to military personnel through the Education Services Officer.

Advanced Placement Exams

National University awards college credit for advanced placement exams passed with a score of 3 or better.

ACT PEP Regents College Examinations

Assess college level competence acquired in non-campus settings in more than 40 arts and sciences, business, education and nursing subjects. Credit for successful completion of an ACT PEP/RCE examination can be applied toward general education, preparation for the major, or general lower-division elective credit. Most examinations are for three or six semester units (4.5 or 9 quarter units) of credit. The total number of units awarded for subject exams cannot exceed 22.5 quarter units (15 semester units).

ACT PEP/RCE registration bulletins are available at the Career Development and Student Assessment Center in San Diego. Students should contact the CDSAC for further details about testing sites.

National University Credit By Examinations

Currently enrolled students can obtain credit for undergraduate courses by departmental examination when training or experience appear to provide a proficiency in the subject matter of an approved course. Only a limited number of courses are approved for credit-by-examination. Students cannot challenge courses that are in the same area as an advanced course taken at National University. Students can obtain applications for credit-by-examination from their advisors. Students must submit their petitions after they are matriculated at the University and before they complete their ninth course. Approval must be granted by the Office of the Registrar and the students must pay a $100.00 fee to the business office. Students must take the examination within 30 days following the approval.

All credit-by-examination must support the objectives of the student’s degree program and cannot exceed 13.5 quarter units in an associate degree program or 22.5 quarter units in a bachelor degree program, including credits earned toward an associate’s degree. Of the 22.5 quarter units permitted in a bachelor’s degree, 13.5 may consist of departmental examinations to replace lower-division work and 9 quarter units to replace upper-division work, or vice versa. Students can earn no more than 9 quarter units in their major or minor by departmental examination. All grades are final. Students cannot repeat a credit-by-examination if a previous attempt was unsuccessful.

Credit from departmental examination is counted toward graduation, but no grade points are assigned or included in calculating grade point averages nor is the credit used to meet residence requirements.

Credit Granted for Military Education

To be awarded credit for courses taken at military service schools on an equivalency basis, students must submit proof of discharge (Form DD-214), an “Application for the Evaluation of Educational Experiences during Military Service” (DD-295), or a Military Smart Transcript.

Credit may also be accepted from non-collegiate courses that are specifically listed in “A Guide to Educational Programs in Non-collegiate Organizations.” Students must present appropriate transcripts, certificates, or other official documents before an evaluation can be made.

Credits for military schools and non-collegiate approved courses apply directly to undergraduate work as it relates to the level and content of the particular degree program.

Course Waivers and Challenge Exams

Waiver Based on Prior Training or Experience

Occasionally, students may request to waive a course based on previous training or experience. If the student can demonstrate mastery of a subject, the department chair must submit a recommendation to the Committee on the Application of Standards to allow the student to waive the particular course.

A course waived by the Committee on the Application of Standards exempts a student from that course. Units are not awarded for a waived course, so the student may need to take a different course in its place in order to meet the overall unit requirement for the degree.

Challenge by Examination

Waivers for certain University courses can only be established by departmental examination. Typically, the courses that require a departmental examination to establish an exemption (waiver) are courses in computer science, mathematics, technical subjects, or those required for licensure or a credential.

Procedures to challenge a course -by -examination are identical to the credit-by-examination procedures explained above, but the fee for a challenge-by-examination is $50 rather than $100. Also, no credit is awarded for a waived course.
Academic Information for Undergraduate Degrees

Grades and Grading System

Students who have more than three absences, excused or unexcused, cannot be given a satisfactory grade.

Definition of Grades

A  Outstanding Achievement
   Significantly Exceeds Standards

B  Commendable Achievement
   Exceeds Standards

C  Acceptable Achievement
   Meets Standards

D  Marginal Achievement
   Below Standards

F  Failing

I  Incomplete
   A grade given when a student who has completed at least two-thirds of the course class sessions and is unable to complete the requirements of the course because of uncontrollable and unforeseen circumstances. Students must communicate these circumstances (preferably in writing) to the instructor prior to the final day of the course. If an instructor decides that an “Incomplete” is warranted, they provide the student with the conditions for removal of the Incomplete in writing and file a copy with the Office of the Registrar. The file copy remains in place until the “Incomplete” is removed or the time limit for removal has passed. An “Incomplete” is not assigned when the only way the student could make up the work is to attend a major portion of the class when it is offered again. Students must resolve “Incompletes” no later than the second complete quarter following the course completion date. Students can be required to remove an “Incomplete” in a shorter period at the discretion of the instructor.

A “I” that is not removed within the stipulated time becomes an “F.” No grade points are assigned. The “F” is calculated in the grade point average.

U  Unsatisfactory
   A permanent grade indicating that a credit attempt was not acceptable. An “Unsatisfactory” grade merits no grade points and is not computed in the grade point average.

W  Withdrawal
   Signifies that a student has withdrawn from a course after beginning the third class session. A “Withdrawal” is not allowed after the beginning of the seventh class session. This is a permanent mark with no grade points assigned.

S  Satisfactory
   Credit is granted but no grade points are assigned.

K  In Progress
   A designation representing a sequential course in progress and that a grade will be assigned at the end of the sequence. No credit is awarded until the sequence is completed and a permanent grade is entered replacing the “K” grade. This grade is also used for project courses that allow up to six months for completion. No grade points are assigned for the “K” grade.

The following grades are assigned for selected project/ practicum courses identified in the course description section of this catalog:

H  Honors
   Signifies “B” or better. No grade points are assigned.

S  Satisfactory
   Signifies average (“C”) work. No grade points are assigned.

U  Unsatisfactory
   Signifies no credit (“F”). No grade points are assigned.

Plus/Minus Grading

National University uses a plus/minus grading system. The grades of A+, F+ and F- are not issued. In the plus/minus system, the grade points per credit used in the calculation of the grade point average are specified below. Instructors may elect not to use the plus/minus system. If they choose not to use this system, they must clearly state so in their course outline.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points Per Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Grade Point Average Requirements

All course work completed at National University must average 2.0 or higher.

All course work completed at National University for the major or in fulfillment of upper-division requirements must average 2.0 or higher unless otherwise specified.

All course work completed at National University for the minor must average 2.0 or higher. If the required grade point average is not maintained, the minor is not included within the degree title.

Computing Grade Point Averages

To compute a student’s grade point average, the total number of credit units is divided into the total number of grade points. Course units count only once toward graduation requirements. “I,” “W,” “U,” “K,” “H,” and “S” designations carry no grade points and are not considered when figuring the grade point averages. When a course is repeated, the higher grade is included in the calculation, but the lower grade remains part of the permanent record and is not calculated in the grade point average.

Satisfactory Academic Progress

Students attending National University are expected to maintain satisfactory academic progress in their selected course of study. Academic progress is defined using both a qualitative and quantitative measure. The qualitative academic progress is assessed
by the grade point average achieved at National University; the quantitative academic progress is measured through the number of quarter units satisfactorily completed.

Undergraduate students must maintain a “C” (2.0) grade point average for course work taken at National University. Students are expected to satisfactorily complete 36 quarter units per year of full-time study or 18 quarter units per year of half-time study provided the degree requirements are completed in no more than six years.

**Academic Probation**

Students who fall below 2.0 for coursework taken at National University are placed on academic probation. They are allowed six courses to improve their cumulative GPA to 2.0, provided there are no further grades of “C-” or below. A grade of “C-” or below will result in immediate disqualification. Students on probation are given up to twelve months to complete the six courses. The twelve-month period begins upon the completion date of the course in which the cumulative GPA fell below 2.0. Students placed on academic probation are removed from this status when they have improved their cumulative GPAs to 2.0 or better.

**Academic Dismissal and Reinstatement**

Students on probation who fail to raise their cumulative GPA to 2.0 within the allotted time frame will be academically dismissed from the University. To be considered for reinstatement, they must complete twelve semester units (18 quarter units) of transferable coursework at a regionally accredited institution with a GPA of no less than 2.5 and then petition the Committee on the Application of Standards.

If the faculty determines that a student ought to be academically dismissed for reasons other than grades, they refer the matter to the Office of Student Affairs, which will initiate a hearing process. The hearing process to be followed is identical with the one invoked for disciplinary actions.

**Incomplete Interrupt and Reinstatement**

Students who receive three “Incompletes” are placed on a status of “Incomplete Interrupt”. Students who fall under this status will be prohibited from taking any other classes until all three “Incompletes” have been removed.

Students placed on incomplete interrupt will be allowed to continue their programs when final grades have been received for all “Incomplete” coursework and all other requirements have been met.

**Repetition of Courses and Grade Changes**

Students are not obligated to repeat a failed course unless it is a course required for graduation. Students may repeat any course in which an “F,” “D,” or “C-” grade was received at the prevailing cost per quarter unit. The original grade entry remains part of the student’s permanent record, but is not considered in computing the grade point average. In order to properly document the repeated course, students must notify the Office of the Registrar that the course has been repeated.

No course can be repeated more than once. The Committee on the Application of Standards must authorize any exception.

All grades are final. Students will not be allowed to complete additional work after the final grade has been assigned or to repeat examinations in order to improve a grade. Students may request a review of their records if the possibility of a clerical or computational error exists. (See “Grade Appeals.”)

**Second Degree from National University**

A second degree from National University can be granted if all course and residence requirements for the second degree have been met. Completion of an additional minor within the same degree major does not qualify for a second degree. The number of courses for a second degree varies, but at least 45 quarter units must be completed in residence in the new degree program.

*Note Exception: A B.A. in Behavioral Science degree cannot be earned after a B.A. in Psychology degree has been earned.*

**National University Memorial Degree**

Since the University was founded in 1971, there have been several occasions when students have died before they were able to complete their degree studies. If it is requested by a student’s family, the board of trustees will award posthumously a memorial degree in the field of the student’s area and level of study, as long as the student was in good standing at the University. A family member may contact the University Registrar at (858) 642-8260.

**Graduation Requirements for Undergraduate Degrees**

The policies and procedures in this “Graduation Requirements” section are applicable to first-time students enrolling under the 2003 Catalog, Volume 67, provided that actual coursework begins within 12 months of the date of application. Departments may require that specific academic requirements be met within six years of granting an undergraduate degree. Students who have not satisfactorily completed a course during a 12-month period must follow the requirements of the catalog in effect at the time of re-enrollment.

The effective date of this catalog is September 1, 2003.

Students who change their major or minor after being matriculated must follow the major and minor requirements in effect at the time of such change.

Students can elect to change to the current catalog; however, they must meet all prerequisites and requirements for general education, majors, minors and areas of specialization in the current catalog. They cannot combine requirements from their previous catalog with those in the current catalog.

Students who are disqualified and subsequently attend the University after an absence of 12 months are subject to the requirements of the catalog in effect at the time they re-enroll in the University.

*Note: Disqualified students must petition C.A.S for possible reinstatement.*

**Unit Requirements**

**Total Number of Units**

The minimum number of units required to earn an associate degree is 90 quarter units.

The minimum number of units required to earn a B.A., B.S., B.S.N., or B.B.A. degree is 180 quarter units. Depending upon the selection of a minor and the need to complete developmental or skill courses prerequisite to general education or preparation for the major courses, some students may be required to complete more than 180 quarter units for their degree.
Upper-Division Units

The total number of upper-division units required for a bachelor’s degree is 76.5 quarter units (17 courses). Upper-division courses are numbered 300 through 599.

Residency Requirements

To qualify for a certificate, students must complete two-thirds of the program at National University.

To qualify for an associate degree, students must complete a minimum of 31.5 quarter units at National University, including the general education residency course.

To qualify for a bachelor’s degree, students must complete each of the following requirements at National University:

- A minimum of 45 quarter units, at least 36 units of which must be in upper-division courses (numbered 300 - 599)
- At least half of the upper-division units required for the major
- At least two-thirds of the upper-division units required for the minor or concentration if a student has selected a minor or concentration

Courses taken through Continuing Education and units earned through credit-by-examination do not apply to these requirements.

General Education Requirements

The general education curriculum furnishes students with the basic knowledge necessary to pursue any degree program. Students who fulfill the curriculum gain a strong interdisciplinary liberal arts framework geared toward problem solving. This emphasis promotes self-directed research in many academic areas that have traditionally been kept separate.

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level, 4.5 units in diversity enriched course work. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following seven areas:

**AREA A: ENGLISH COMMUNICATION**
(minimum 15 quarter units)

**AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**
(minimum 4.5 quarter units)

**AREA C: INFORMATION LITERACY**
(minimum 4.5 quarter units)

**AREA D: ARTS AND HUMANITIES**
(minimum 13.5 quarter units)

**AREA E: SOCIAL AND BEHAVIORAL SCIENCES**
(minimum 13.5 quarter units)

**AREA F: PHYSICAL AND BIOLOGICAL SCIENCES**
(minimum 6 quarter units required [Note: one science lab is required])

**AREA G: MODERN LANGUAGE**
(minimum 9 quarter units)

(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.)

**AREA A-G: GENERAL EDUCATION ELECTIVE**
(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

Major and Minor Requirements

Preparation for the Major

Every major requires a set of introductory and/or skills courses designed to prepare students for upper-division study. Many courses taken for this purpose can also be used to satisfy general education requirements.

Major

Students must complete a departmental major for each bachelor of arts or bachelor of science degree. Most majors consist of an integrated area of specialized study at the upper-division level and consist of at least nine courses, which total 40.5 quarter units. Courses taken in the major or in satisfaction of the major cannot be used to meet requirements in a minor or in general education.

To receive an Associate of Arts (A.A.), a Bachelor of Science in Liberal Studies, or a Bachelor of Business Administration (B.B.A.) degree, students are not required to complete a major or minor. The required upper-division courses for the B.B.A. cannot be used to meet requirements in a minor or in general education. At least half of the required upper-division courses for the B.B.A. must be completed in residence. Units earned through credit-by-examination do not satisfy residency requirements.

Minor

Students may petition C.A.S to take any minor with any B.S., B.A., or B.B.A. degree program. Students must verify prior to petitioning C.A.S that the particular combination being requested has not been duplicated by the major or specifically prohibited by the B.A., B.S., or B.B.A. program. Students must also meet any entry requirements and prerequisites for the requested minor.

Completion of a minor is not required. A minor consists of a minimum of six upper-division courses that total at least 27 quarter units, unless otherwise indicated. Courses in the minor do not count toward the major, but can be used to satisfy preparation for the major and general education requirements. At least two-thirds of the units in the minor must be completed in residence. Units earned through credit-by-examination do not satisfy residency requirements.
Application for Graduation

Graduation is not automatic upon the completion of degree requirements. Students must file an application in the Office of the Registrar within the designated application period for degree posting. A $100 processing fee is required at the time of application. Requirements for graduation include:

a. Satisfactory completion of one of the regular curricula of study leading to a degree with a minimum overall grade point average of 2.0 and a grade point average of 2.0 for all courses completed in satisfaction of major and minor requirements, unless otherwise specified.

b. Settlement of all financial obligations with the University

Graduation with Honors

Graduation with honors is available to students whose academic record indicates superior achievement. Earned honors are noted on diplomas and official University transcripts.

Honors for associate and bachelor’s degrees are determined only for courses taken at National University. Prerequisite courses that were required by matriculation are included in the calculation of the grade point average. Honors are awarded according to the following grade point averages:

- Summa Cum Laude 3.90
- Magna Cum Laude 3.70
- Cum Laude 3.50

Only those students who complete 45 quarter units or more in residence in their program are considered for honors awards.

Degree Conferral

Degrees are conferred and posted to transcripts after the close of each academic quarter, specifically on the third Sunday in January, April, July and October. Diplomas are mailed following degree posting.

Annual commencement exercises are held in San Diego for the San Diego and Southern regions and in Sacramento for the Northern region. Detailed information with specific instructions regarding the commencement exercises is mailed to eligible students prior to each ceremony date.

Dates for commencement exercises in 2004 are:
- Sunday, May 9, San Diego
- Sunday, June 13, Sacramento
Academic Information for Graduate Degrees

68 Academic Information for Graduate Degrees
68 Admission
69 Credit
69 Course Waivers
69 Grading System
70 Satisfactory Academic Progress
71 Graduation Requirements for Graduate Degrees
71 Application for Graduation
71 Degree Conferral

Defining the Future of Higher Education for Adult Learners

TM
Academic Information for Graduate Degrees

Familiarity With University Regulations

Upon execution of the enrollment agreement, students acknowledge receipt of the current catalog and agree to abide by the policies, rules and regulations of the University. When Internet students check the box on the online enrollment agreement constituting a virtual signature, they acknowledge that they are bound by the policies, rules and regulations of the University, which can be found in the catalog at its Web site www.nu.edu. Included in this publication are academic standards and a listing of the courses required for graduation. Students are responsible for meeting the published requirements of their programs. Ignorance of or lack of familiarity with this information does not serve as an excuse for noncompliance or infractions. The University provides assistance in the form of academic advising; however, the decisions made as a result of this process are those of the students.

Admission

In addition to the general admission requirements, applicants for admission to a master’s degree program must:

1) Hold a bachelor’s degree or higher from a regionally accredited college or university where an overall grade point average of 2.5 or better was achieved, or where a grade point average of 2.75 or higher was achieved in the last 90 quarter units.

Students with a grade point average of 2.0 to 2.49 may be admitted to the University if they have a satisfactory score on one of the following tests:

- 550 on the Graduate Management Admission Test
- 480 (verbal) and 570 (quantitative) the Graduate Record Examination
- 48 on the Miller Analogies Test
- 550 on the Graduate Management Admission Test
- An approved, standardized program-specific exam

(Note: National University’s College Board Institutional Code = 4557)

Alternatively, students with an undergraduate grade point average of 2.0 to 2.49 may be admitted to National University if they have successfully completed 13.5 quarter units of graduate coursework with grades of “B” or better at a regionally accredited institution.

Finally, students with an undergraduate grade point average of 2.0 to 2.49 may be admitted to National University on probationary “Master/Credential Provisional” status and are permitted to take 13.5 units of graduate level coursework. If this coursework is completed with grades of “B” or better, the student is removed from probationary status and becomes eligible for admission to the desired academic program.

2) Present preliminary documentation of prior education at the required interview with an admission advisor. Unofficial transcripts are acceptable.

3) Complete an application for admission.

4) Execute an enrollment agreement.

5) Remit an application fee of $60.

6) Complete program admission process. Any exceptions to the above admissions requirements must be considered by the Committee on the Application of Standards.

All graduate and post-baccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English, must demonstrate competence in English. Those who do not possess a bachelor’s degree from a post-secondary institution where English is the language of instruction are encouraged to take the English ACCUPLACER evaluation as part of the admissions process.

The English ACCUPLACER evaluation for graduate students is advisory only and does not delay the admissions process. The results of the English evaluation are printed immediately and a copy is provided to the student. Based on the student’s score on the evaluation, the admissions advisor recommends appropriate English courses.

Provisional Status Admission

Students who want to be admitted to a credential or master’s degree program when official transcripts are not immediately available can be admitted on “Provisional Status.” Students are responsible for obtaining from the college or university where they earned their baccalaureate degree an official transcript in a sealed envelope. The sealed transcript is to be sent to the Office of the Registrar of National University in a prepaid envelope provided by admissions advisors. When the Office of the Registrar receives official documentation, it considers students for eligibility.

Graduate and credential students may complete three courses on “Provisional Status” to provide time for receipt of official transcripts. If the Office of the Registrar does not receive the required documentation within three months of the start of the first class, the students must temporarily interrupt studies until all official documents are received. Coursework completed satisfactorily while on “Provisional Status” counts toward graduation if it is consistent with specific degree program requirements.

“Master/Credential Provisional”

“Master/Credential Provisional” is a probationary status for students whose undergraduate GPA was 2.0 to 2.49. Students admitted on “Master/Credential Provisional” status are ineligible for official enrollment and will not be processed for financial aid until they have completed 13.5 quarter units of graduate study with a cumulative GPA of 3.0 or above in their graduate level studies. Students who receive a grade below “B” during the first 4.5 quarter units are disqualified. They are barred from further attendance and must apply to Committee on the Application of Standards to be considered for reinstatement.

Degree Audit Reporting System (DARS)

When eligibility for admission to a master’s or credential program has been determined, a DARS Report is automatically e-mailed to the student. This report lists the coursework and other requirements that remain for completion of the program. In the case of an entering master’s or credential student, it will list the entire program. As the student progresses through the program, the report will show coursework already completed and the coursework remaining to be completed. The report helps students, advisors and the University determine progress toward completion of program requirements and also serves as a graduation check. As students progress through their degree requirements, they can request updated copies of the DARS report through their advisor or through the Web.
Credit

Unit Transfer Limit

Students can transfer a maximum of 13.5 quarter units at the graduate level from a regionally accredited institution, provided the units have not been used to satisfy the requirements of an awarded degree. All transfer units must be designated as graduate work in which a grade of “B” (3.0) or better was earned. Students who believe that they have taken coursework elsewhere that is applicable to their current program may submit one of the online Course Equivalency Forms, available at www.nu.edu/mynu. Students with coursework that applies toward a credential should use the online Pre-Approved Credential Coursework Equivalency Form. For all other coursework, students should see an admissions advisor, or faculty member to submit an Open Equivalency Form. Master’s students are responsible for providing the Office of the Registrar an official transcript showing the coursework before the transfer or waiver will be processed.

Time Limit

Coursework that is more than seven years old cannot be transferred into post-baccalaureate credential or degree programs. Similarly, coursework completed at National University more than seven years ago cannot be applied to post-baccalaureate credential or degree programs for re-enrolling students. Outdated courses must be repeated, or, with the approval of the school dean, a more recent, suitable course may be substituted. The Committee on the Application of Standards governs all exceptions.

Course Waivers

When a student has acquired mastery of a subject through a concentration of undergraduate courses, or through considerable experience or training, lead faculty can recommend to the school dean that a course be waived. To make such a recommendation, the lead faculty must submit an electronic Coursework Transfer/Waiver Form to the dean. If the dean approves the course waiver, it is forwarded to the Office of the Registrar for final review. If the course waiver is approved, the student is exempt from the course. Units are not awarded for waived courses, so students must still meet the unit requirement for the degree.

English and Mathematics Evaluations

National University encourages new graduate students to complete the English and math ACCUPLACER evaluations. These evaluations are not required, but are recommended because they are excellent tools for assessing written communication and quantitative levels of proficiency. The ACCUPLACER evaluations are computer-based and the results are confidential. If desired, the staff of the Learning Resource Center will review evaluation results with students and recommend sources of review material.

Challenge by Examination

Students in the School of Education have the option to test out of EDT 608, and EDT655. In order to test out of these courses, students must follow the same procedures as outlined in Academic Information for Undergraduate Degrees under the heading “Challenge by Examination.” The fee for each challenge exam is $50 and no credit is awarded. Contact and advisor or a local representative for more information.

Credit-by-examination is not allowed at the graduate level.

Grading System

Students who have more than three absences, excused or unexcused, cannot be given a satisfactory grade.

A Outstanding Achievement
B Commendable Achievement
C Marginal Achievement
D Unsatisfactory Achievement
F Failing
I Incomplete

A grade given when a student who has completed at least two-thirds of the course class sessions is unable to complete the course requirements due to uncontrollable and unforeseen circumstances. The student must convey (preferably in writing) these circumstances to the instructor prior to the final day of the course. If the instructor decides that an “Incomplete” is warranted, the instructor must convey the conditions for removal of the Incomplete to the student in writing. A copy must also be placed on file with the Office of the Registrar until the Incomplete is removed or the time limit for removal has passed. An “Incomplete” is not assigned if the only way a student can make up the work is to attend a major portion of the class when next offered. An “Incomplete” must be removed no later than the second complete quarter following the original course completion date, but may be for a shorter period at the discretion of the instructor. An “Incomplete” not removed within the stipulated time becomes an “F.” No grade points are assigned. The “F” is calculated in the grade point average.

U Unsatisfactory

A permanent grade given indicating that a credit attempt was not acceptable. An “Unsatisfactory” grade merits no grade points and is not computed in the grade point average. This grade is assigned for unsatisfactory work in practica, residencies and field experience courses.

W Withdrawal

Signifies that a student has withdrawn from a course after beginning the third class session. A “Withdrawal” is not allowed after the beginning of the sixth class session. This is a permanent mark with no grade points assigned.

S Satisfactory

Credit is granted and no grade points are assigned. This is a grade assigned for satisfactory work in practica, residencies and field experience courses.

K In Progress

A designation representing a sequential course in progress. At the end of the sequence, a grade is received and replaces the “K” grade. No credit is awarded until the sequence is completed and a permanent grade is entered replacing the “K” grade. This grade is also used for project courses that allow up to six months for completion. No grade points are assigned for the “K” grade.

The following grades are assigned for selected project/practicum courses identified in the course description section of this catalog:

H Honors
Signifies “B” or better. No grade points are assigned.

S Satisfactory
Signifies marginal (“C”) work. No grade points are assigned.

U Unsatisfactory
Signifies no credit (“D” or “F”). No grade points are assigned.
Academic Information for Graduate Degrees

**Plus/Minus Grading**

National University uses a plus/minus grading system. The grades of A+, F+, and F- are not issued. In the plus/minus system, the grade points per credit used in the calculation of the grade point average are specified below. Instructors may elect not to use the plus/minus system. If they choose not to use this system, they must clearly state so in their course outline.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points Per Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**Repetition of Courses and Grade Changes**

Students are not obligated to repeat a failed course unless it is a course required for graduation. Students can repeat any course at the prevailing cost per quarter unit where an “F”, “D,” “C,” or “B-” grade was received. The original grade entry remains part of the student’s permanent record, but is not considered as units attempted in computing the grade point average. To properly document the repeated course, students must notify the Office of the Registrar that the course has been repeated.

A course in which a “B” grade has been earned cannot be repeated.

All grades are final. Students will not be allowed to complete additional work after the final grade has been assigned or to repeat examinations in order to improve a grade. Students may request a review of their records if the possibility of a clerical or computational error exists. (See “Grade Appeals.”)

**Computing Grade Point Averages**

To compute a student’s grade point average, the total number of credit units is divided into the total number of grade points. Course units count only once toward graduation requirements. “H,” “I,” “K,” “S,” “U,” and “W” carry no grade points and are not considered in computing the grade point average. When a course is repeated, the higher grade is included in the calculation. The lower grade remains part of the permanent record, but is not calculated in the grade point average.

**Satisfactory Academic Progress**

Students must maintain an overall grade point average of 3.0 for all graduate work. To meet the requirements for graduation, students must also maintain a 3.0 grade point average for their field of study and area of specialization. If the required grade point average is not maintained within an area of specialization, that emphasis is not included within the degree title. Students who receive a “D” or “F” grade in a required course must repeat the course in the following quarter and receive a passing grade. Students who receive a “D” or “F” in an elective course work may submit a written petition to the Committee on the Application of Standards to substitute another course.

**Grade Warning**

Graduate students who receive two grades of “D+” or lower are placed on a status of grade warning and are notified that a third such grade will result in academic dismissal.

**Academic Probation**

Students who’s cumulative GPA falls below a 3.0 for work taken at National University are placed on academic probation. Students are allowed three courses to improve their cumulative grade point average to the required 3.0. Students are given six months to complete the three courses. The six-month period begins upon the completion date of the last course in which the student’s grade point average fell below the required 3.0 standard.

*Note: The University recommends that any course work in which a letter grade of “C” or below was earned should be repeated while on probation.*

**Incomplete Interrupt**

Students who receive three “Incompletes” are placed on probation and their attendance is interrupted until all three “Incompletes” have been removed. If all three “Incompletes” become grades of “F,” students are academically dismissed from the University and are ineligible for reinstatement to graduate status.

Students placed on incomplete-interrupt due to three “Incompletes” are removed from this status and allowed to continue enrollment when final grades have been received for all “Incomplete” coursework and all other requirements have been met.

**Removal from Probation**

Students placed on probation are removed from probation when they have improved their grade point average to a cumulative GPA of 3.0 or better.

Satisfactory grades received while on probation count toward fulfillment of degree requirements.

**Disqualification**

Students placed on academic probation are allotted up to six months to take three courses in order to raise their cumulative grade point average to a 3.0 or above. Failure to raise cumulative grade point average under the specified requirements will result in disqualification. Only coursework taken at National University is used in determining the deficiency.

Disqualified students cannot attend National University for the next three months. After a three-month leave from the University, students can apply for reinstatement. Students who believe they have been unjustifiably disqualified can petition the Committee on the Application of Standards and request a reconsideration of the disqualification. In the petition, the students must identify any extenuating circumstances that led to disqualification (e.g., serious illness, death in immediate family) and must included supporting documentation.

**Reinstatement**

To be reinstated, disqualified students must petition the Committee on the Application of Standards. Students that are approved to be readmitted to the University will be placed on a “Conditional” status. Students will be placed on permanent probation after completion of the required conditions set forth by the C.A.S Committee.
Academic Information for Graduate Degrees

Academic Dismissal

Graduate students who receive two grades of “D” or “F” are placed on grade warning status. Graduate Students who receive three grades of “D+” or lower are academically dismissed and are ineligible for reinstatement. Students who believe they have been unjustifiably dismissed can appeal to the Committee on the Application of Standards and request a reconsideration of the dismissal.

Graduate students who were disqualified from and reinstated to their academic program on a status of permanent probation, must maintain a cumulative GPA of 3.0 or better. A cumulative GPA that falls below a 3.0 will result in academic dismissal and render students ineligible for reinstatement to graduate status.

If the faculty determines that a student ought to be academically dismissed for reasons other than grades, they refer the matter to the Office of Student Affairs, which will initiate a hearing process. The hearing process to be followed is identical with the one invoked for disciplinary actions.

Second Degree from National University

Students can obtain a second master’s degree from National University if they have met all course and residence requirements for the second degree. Completion of an additional area of specialization within the same degree does not qualify for a second degree. The number of courses required for a second degree varies, but at least 40.5 quarter units must be completed in residence in the new degree program. Units earned toward the first master’s degree cannot be applied toward the second.

Note: An M.A. in Human Behavior cannot be earned after an M.A. in Counseling Psychology degree has been earned.

Graduation Requirements for Graduate Degrees

The policies and procedures in this “Graduation Requirements” section are applicable to first-time students enrolling under the 2003 Catalog, Volume 67, if actual course work begins within 12 months of the date of application and if graduation occurs within four years. Students who have not satisfactorily completed a course over a 12-month period following application must follow the requirements of the catalog in effect at the time of re-enrollment.

The effective date of this catalog is September 1, 2003.

Students who change their field of study or area of specialization after matriculation must follow the field of study or area of specialization in effect at the time of such change.

Students can elect to change to the catalog in effect the year in which they graduate. Students who select this option must meet all prerequisites and requirements for the field of study and/or area of specialization in the current catalog. Students cannot combine elements from their previous catalog with those in the current catalog.

Students who are disqualified and subsequently attend the University after an absence of 12 months are subject to the requirements of the catalog in effect at the time they re-enroll in the University.

Note: Students who are disqualified must petition C.A.S for reinstatement.

Field of Study and Area of Specialization Requirements

Each master’s degree has been structured to delineate the program prerequisites, field of study, areas of specialization and electives that constitute the requirements for the degree. Each degree has a designated field of study that consists of at least six courses, which total at least 27 quarter units. Not all degrees have areas of specialization.

Unit and Residency Requirements

Graduate degrees require the completion of 45-108 quarter units. Students must earn a minimum of 40.5 quarter units at National University and must complete half of the field of study and three-fourths of the area of specialization in residence.

Graduate courses are numbered 600 - 699.

Courses numbered 500-599 may grant graduate credit if specified by the requirements of the degree program.

Students in certificate programs must complete two-thirds of the coursework at National University.

All transfer credit must relate to the content of the respective degree program.

Application for Graduation

Graduation is not automatic upon the completion of degree requirements. Students must file an application in the Office of the Registrar within the designated application period for degree posting. Students must pay a $100 processing fee at the time of application. Requirements for graduation include:

1) Satisfactory completion of one of the regular curricula of study leading to a degree with a minimum grade point average of 3.0. Students must complete all course work in satisfaction of their field of study or area of specialization.

2) Settlement of all financial obligations with the University.

Graduate students whose grade point average is in the upper five percent of the graduating class within their school graduate “With Distinction.” Prerequisite courses at the undergraduate level that were required by matriculation are not included in the calculation of the grade point average for graduate honors.

Earned honors are noted on diplomas and official University transcripts. Only students who complete 40.5 quarter units or more of their programs in residence are considered for honor awards.

Degree Conferral

Degrees are conferred and posted to transcripts after the close of each academic quarter, specifically on the third Sunday in January, April, July and October. Diplomas are mailed following degree conferral.

Commencement exercises are held in San Diego and Sacramento annually. Detailed information with specific instructions regarding the commencement exercises is mailed to eligible students prior to each ceremony date.

Dates for commencement exercises in 2004 are:
Sunday, May 9, San Diego
Sunday, June 13, Sacramento
General Education

General Education Program Requirements

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 quarter units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

AREA A: ENGLISH COMMUNICATION (minimum 15 quarter units)
AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING (minimum 4.5 quarter units)
AREA C: INFORMATION LITERACY (minimum 4.5 quarter units)
AREA D: ARTS AND HUMANITIES (minimum 13.5 quarter units)
AREA E: SOCIAL AND BEHAVIORAL SCIENCES (minimum 13.5 quarter units)
AREA F: PHYSICAL AND BIOLOGICAL SCIENCES (minimum 6 quarter units required [Note: one science lab is required])
AREA G: MODERN LANGUAGE (minimum 9 quarter units) (Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement)
AREA A-G: GENERAL EDUCATION (minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

The general education curriculum emphasizes communications, mathematics and sciences, humanities and social/behavioral sciences. Thus, the curriculum provides coherence to undergraduate education, affording the student the opportunity to:

1) Apply skills and concepts developed in general education courses to challenges and tasks presented in their upper division major courses
2) Apply skills and concepts developed in the general education courses to challenges and tasks presented in their future profession
3) Demonstrate critical thinking, reading and writing skills appropriate to upper division college work
4) Demonstrate awareness of how diverse peoples and cultures have interacted in the past and interact in our contemporary world
5) Demonstrate critical awareness of different approaches, methods and assumptions of different academic disciplines and how these are applied to professional and social problems
6) Access, evaluate and use information gathered through a variety of resources and technologies in developing research projects and presentations.

The general education curriculum furnishes students with the basic knowledge necessary to pursue any degree program. Students who fulfill the curriculum gain a strong interdisciplinary liberal arts framework geared toward problem solving. This emphasis promotes self-directed research in many academic areas that have traditionally been kept separate.
Approved Courses

AREA A: ENGLISH COMMUNICATION
(15 quarter units required)

CATEGORY 1
Writing (10.5 quarter units required)

ENG 100 Effective College English I (3.0 quarter units)
(Prerequisite: Placement Exam)

ENG 101 Effective College English II (3.0 quarter units)
(Prerequisite: ENG 100 or Placement Exam)

ENG 240 Advanced Composition
(Prerequisite: ENG100/101)
(No 300-level English course may fulfill this requirement)

CATEGORY 2
Speech and Communications (4.5 quarter units required)

COM 100 Introduction to Communications

COM 200 Effective Communication

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
(minimum 4.5 quarter units required)

MTH 204 Mathematics for Business and Social Sciences
(Prerequisite: Placement Evaluation)

MTH 209A Structure and Concepts of Mathematical Fundamentals I
(Prerequisite: Placement Evaluation)

MTH 209B Structure and Concepts of Mathematical Fundamentals II
(Prerequisite: MTH209A)

MTH 210 Introduction to Probability and Statistics
(Prerequisite: Placement Evaluation)

MTH 215 College Algebra and Trigonometry
(Prerequisite: Placement Evaluation)

MTH 216A College Algebra and Trigonometry I (3 quarter units)
(Prerequisite: Placement Evaluation)

MTH 216B College Algebra and Trigonometry II (3 quarter units)
(Prerequisite: MTH 216A)

MTH 220 Calculus I
(Prerequisite: MTH 215)

CST 206B Discrete Structures and Logic Design
(Prerequisite: MTH 215)

CST 208B Calculus for Computer Science
(Prerequisite: MTH 215)

MTH 220 Calculus I
(Prerequisite: MTH '215 or placement evaluation)

MS 205 Introduction to Quantitative Methods for Business
(Prerequisite: Placement Evaluation)

NSG 322 Introduction to Biomedical Statistics
(open only to students in the B.S.N program)

AREA C: INFORMATION LITERACY
(4.5 quarter units required)

ILR 260 Information Literacy and Report Writing
(Prerequisite: ENG 240)

AREA D: ARTS AND HUMANITIES
(13.5 quarter units required)

ART 100 Introduction to Art History
(Prerequisites: ENG 100/101)

ART 200 Visual Arts

ART 200A Visual Arts Laboratory (1.5 quarter units)
(Prerequisite: ART200)

HIS 233 World Civilization I
(Prerequisites: ENG 100/101)

HIS 234 World Civilization II
(Prerequisites: ENG 100/101)

LIT 100 Introduction to Literature
(Prerequisites: ENG 100/101)

MUS 100 Fundamentals of Music

MUS 327 World Music

PHL 100 Introduction to Philosophy
(Prerequisites: ENG 100/101)

AREA E: SOCIAL AND BEHAVIORAL SCIENCES
(13.5 quarter units required)

COM 380 Democracy in the Information Age [+]
(Prerequisites: ENG 100/101)

ECO 203 Principles of Macroeconomics

ECO 204 Principles of Microeconomics
(Prerequisite: ECO 203)

HIS 220A History of the United States I [+]
(Prerequisite: ENG 100/101)

HIS 220B History of the United States II [+]
(Prerequisite: ENG 100/101)

HIS 300 Foundations of Western Civilization
(Prerequisite: ENG 100/101)

HIS 350 Cultural Diversity [+]
(Prerequisites: ENG 100/101)

PS 201 American Government and Politics
(Prerequisites: ENG 100/101)

PSY 100 Introduction to Psychology

SOC 100 Principles of Sociology
(Prerequisite: ENG 100/101)

SOC 260 Cultural Anthropology
(Prerequisites: ENG 100/101)

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES
(6 quarter units required)
(Nota: One science lab is required @ 1.5 quarter units)

SCI 100 Survey of Bioscience

SCI 100A Survey of Bioscience Laboratory (1.5 quarter units)

SCI 101 General Chemistry

SCI 101A General Chemistry Laboratory (1.5 quarter units)

AREA G: MODERN LANGUAGE
(9 quarter units required)
(In addition to the course work listed below, students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.)

LAS 100 Spanish I

LAS 200 Spanish II
(Prerequisite: LAS 100)

LAS 300 Spanish III
(Prerequisite: LAS 200)
General Education

LAS 101  Spanish for the Native Speaker  
(Prerequisite:  Native speaking ability and/or recommendation of instructor.)

LAS 201  Spanish for the Native Speaker II  
(Prerequisite:  LAS 101)

AREA A-G  GENERAL EDUCATION  
(4.5 quarter units minimum)

If a student has not met the upper-division unit requirement in the completion of the above general education areas, one of the following courses must be taken. If a student has already met the upper-division unit requirement in the completion of the above general education areas, any course in Areas A through G may satisfy this Area.

COM 380  Democracy in the Information Age [+]  
(Prerequisites:  ENG 100/101)

HIS 300  Foundations of Western Civilization  
(Prerequisites:  ENG 100/101)

HIS 350  Cultural Diversity [+]  
(Prerequisites:  ENG 100/101)

LIT 342  World Literature  
(Prerequisites:  ENG 100/101)

PHL 375  Environmental Ethics  
(Prerequisites:  ENG 100/101)

SCI 300  Geography [+]  

SOC 260  Cultural Anthropology  
(Prerequisites:  ENG 100/101)
School of Arts and Sciences

Dean, Elizabeth Shutler
Ph.D. Anthropology, University of Arizona

78 Degrees Offered
79 Faculty
81 Undergraduate Degree Programs
97 Graduate Degree Programs
Degree Programs Offered

Undergraduate Degrees

**Associate of Arts**

**Bachelor of Arts**
*with Majors in:*
- Behavioral Science
- English
  - Global Studies
- Interdisciplinary Studies
- Multiple Subjects
- Multimedia Arts
- Psychology

**Bachelor of Science**
*with Majors in:*
- Earth Sciences
- Liberal Studies
- Life Sciences
- Mathematics
- Organizational Behavior

- Bachelor of Science in Nursing

**SCHOOL OF ARTS AND SCIENCES**

**MINORS**
- Addictive Disorders
- Mathematics
- Psychological Research

**Graduate Degrees**

**Master of Arts**
*Fields of Study:*
- Counseling Psychology
- English
- Human Behavior

**Master of Fine Arts**
*Field of Study:*
- Film Art Studies

**Master of Science**
*Field of Study:*
- Instructional Technology
- Industrial Organizational Psychology

**General Education Curriculum**

The University’s general education program links undergraduate work in writing, oral communication, critical thinking, mathematics and other skill areas with programs at the upper division level.

A number of courses address issues of cultural diversity, while the traditional goal of promoting intellectual breadth along with skill-based fundamentals has been enhanced and made more flexible.

The purpose of National University’s general education program is to meet the educational objectives of adult learners who seek to strengthen their professional work and advance their creative and analytical abilities.

Special Programs

**Center for Cultural and Ethnic Studies**

The Center for Cultural and Ethnic Studies sponsors forums, conferences and cultural events with the goal of promoting diversity and intellectual curiosity at the university. These events are intended to encourage awareness of contemporary artistic, intellectual, cultural, gender and ethnic issues in daily life. In order to give these concerns intellectual context, the Center focuses specific attention on questions of media representation, alternative voices and professional ethics.

In practice, the Center serves as a bridge between the University and other communities. Events provide a common platform for the exchange of research and ideas by National University faculty and scholars at other institutions, artists and community activists. The work of the Center for Cultural and Ethnic Studies is to bring cultural, intellectual and artistic events of the highest caliber to the University.

Events arranged by the Center are co-sponsored and supported by numerous organizations, including the California Council for the Humanities, the Coalition of African Organizations, the Tiananmen Square Foundation, the San Diego Chinese Historical Museum, the Colorado River Native Nations Alliance, the San Diego Jazz Society, the Older Women’s League, the U.S. Grant Hotel, Bear State Theater, the Taco Shop Poets and many others.

In addition to sponsoring events and encouraging discussion of contemporary intellectual and cultural issues at National University campuses throughout California, the Center for Cultural and Ethnic Studies also co-sponsors an annual international gathering in Mexico, the Media of Communication Conference/Conferencia Anual Sobre Los Medios de Comunicacion. The conference is cosponsored by and takes place at the campus of the Universidad Autonoma de Chiapas.

The Center also includes an annual academic conference co-sponsored by the Society for Phenomenology and Media Studies. An annual publication of papers accompanies this program.

**International Cultural Studies**

The Center for Cultural and Ethnic Studies also coordinates the International Cultural Studies program. This program offers courses in regional studies at various international locations, bringing the study of a specific region directly into the student’s academic experience. For further information on this program, contact the School of Arts and Sciences.

Writing Across the Curriculum

Writing Across the Curriculum is a University-wide program that enriches all schools and areas of learning through the development of writing skills and critical thinking. The School of Arts and Sciences has developed this program to ensure that the writing needs of all disciplines are met and that the quality of writing and related skills distinguish the National University graduate. In conjunction with faculty of the other schools, the faculty of Arts and Sciences serve the entire University community by improving the skills so essential to student well being. They do this by creating writing-intensive courses, directing the Writing Centers, editing the WAC (WHACK) newsletter and the Gnu Student Journal.

…” denotes program also offered or partially offered online.

Note: Not all online programs or courses are offered in entirety via Internet.

Note: Not all courses or programs listed in this catalog are available at every learning facility. Various undergraduate minors are available in some degree programs.

FOR FURTHER INFORMATION

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Mission Statement

The faculty of the School of Arts and Sciences is committed to helping students gain a truly liberal education while at the same time achieving personal intellectual growth. The lower division curriculum prepares undergraduates for a major field of study because it is writing-intensive, it emphasizes critical thinking and it addresses the cultural diversity of contemporary society. The School’s general education program exposes all students to the humanities and fine arts as well as the social, psychological and natural sciences. Students are expected to explore mathematical and other formal systems in order to develop abstract reasoning abilities. The fundamental purpose of the arts and sciences curriculum is to enhance a student’s capacity to live and work as a responsible citizen in an increasingly complex world. To that end, the School’s programs cultivate students’ critical abilities to analyze important social and professional issues.

Undergraduate Degrees

■ ASSOCIATE OF ARTS (A.A.)
(600)
Faculty Advisor: Alice Scharper • (916) 855-4003 • ascharpe@nu.edu

The Associate of Arts (AA) degree is designed to give students a solid foundation for continuing professional and traditional studies as well as continued intellectual growth.

Degree Requirements

To receive the AA degree, students must complete at least 90 quarter units, 31.5 of which must be taken in residence at National University. Of the 90 units required, 70.5 must fall into the areas of general education listed below. The other 19.5 quarter units can be comprised of elective courses and/or specific major program preparatory courses.

Students are urged to meet English and mathematics requirements as early as possible in their college career to avoid serious difficulties in other course work. Refer to the section on undergraduate admission requirements for specific information regarding application, placement evaluation and matriculation.

General Education Program Requirements
Faculty Advisor: Alice Scharper • (530) 226-4003 • ascharpe@nu.edu

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

AREA A: ENGLISH COMMUNICATION
(minimum 15 quarter units)

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
(minimum 4.5 quarter units)

AREA C: INFORMATION LITERACY
(minimum 4.5 quarter units)

AREA D: ARTS AND HUMANITIES
(minimum 13.5 quarter units)

AREA E: SOCIAL AND BEHAVIORAL SCIENCES
(minimum 13.5 quarter units)

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES
(minimum 13.5 quarter units)

AREA G: MODERN LANGUAGE
(minimum 9 quarter units)

AREA H: SCIENCE
(minimum 9 quarter units)

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

AREA A: ENGLISH COMMUNICATION
(minimum 15 quarter units)

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(minimum 4.5 quarter units)

AREA C: INFORMATION LITERACY
(minimum 4.5 quarter units)

AREA D: ARTS AND HUMANITIES
(minimum 13.5 quarter units)

AREA E: SOCIAL AND BEHAVIORAL SCIENCES
(minimum 13.5 quarter units)

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES
(minimum 13.5 quarter units)

AREA G: MODERN LANGUAGE
(minimum 9 quarter units)

Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.

AREA A-G: GENERAL EDUCATION
(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

■ BACHELOR OF ARTS (B.A.)
(610)
General Education Program Requirements
Faculty Advisor: Alice Scharper • (530) 226-4003 • ascharpe@nu.edu

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

AREA A: ENGLISH COMMUNICATION
(minimum 15 quarter units)

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
(minimum 4.5 quarter units)

AREA C: INFORMATION LITERACY
(minimum 4.5 quarter units)

AREA D: ARTS AND HUMANITIES
(minimum 13.5 quarter units)

AREA E: SOCIAL AND BEHAVIORAL SCIENCES
(minimum 13.5 quarter units)

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES
(minimum 13.5 quarter units)

AREA G: MODERN LANGUAGE
(minimum 6 quarter units required [Note: one science lab is required])

Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.
**AREA A-G: GENERAL EDUCATION**

(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

◆ **Major in Behavioral Science**

(610-103)

*Faculty Advisor: Brenda Shook • (916) 855-4106 • bshook@nu.edu*

In today’s complex technological society, there is an ever-increasing need for a theoretical and scientific understanding of human behavior. The Bachelor of Arts degree with a Major in Behavioral Sciences draws from the theories, principles and scientific research in psychology and human behavior to present a broad view of human thought, emotion and action. The degree provides students with a solid background in the discipline so they can operate more effectively as a person and pursue advanced studies in the field. This degree emphasizes the research and scientific dimensions of human behavior. Students wishing to add a more clinical or counseling orientation should consider a minor in addictive disorders or take the following courses as electives: PSY 340A, PSY 437, CD 440.

Students wishing greater exposure to research and experimental methods should consider a minor in psychological research. The primary program outcomes and competencies are:

- Competency in the classification and research of psychopathologies.
- A mastery of knowledge in developmental psychology and an understanding of development throughout the life span.
- A mastery of personality theory and research on the psychological characteristics of the individual.
- An understanding of human learning, memory, and the cognitive structures underlying behavior and mental processes.
- An ability to appraise social influences on human behavior, including persuasion, obedience, conformity, and other social processes.
- Knowledge of the neurobiological mediation of normal and abnormal behaviors and an ability to evaluate neuroscientific research.
- An understanding of the theory and principles of psychological tests and measurement, and a knowledge of the application (and misapplication) of a variety of standardized test.
- An appreciation for the use of the scientific method throughout the history of psychology and be able to articulate the important issues that emerged in the evolution of psychology as a distinct discipline.
- The ability to write a comprehensive paper in APA style that includes the empirical and theoretical study of a specific topic related to the major.

**Requirements for the Major**

To receive a Bachelor of Arts degree with a Major in Behavioral Science, students must complete at least 180 quarter units as articulated below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. The following courses are specific degree requirements. In the absence of transfer credit, additional general electives may be necessary to satisfy the total units for the degree.

**Preparation for the Major**

(3 courses; 13.5 quarter units)

These courses may be used to satisfy a general education requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILR 260</td>
<td>Information Literacy and Report Writing (Prerequisite: ENG 240)</td>
</tr>
<tr>
<td>PSY 100</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>MTH 210</td>
<td>Introduction to Probability and Statistics (Prerequisite: Placement Evaluation)</td>
</tr>
</tbody>
</table>

**Upper-Division Requirements for the Major**

(9 courses; 40.5 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 426</td>
<td>History of Psychology (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 427</td>
<td>Biological Psychology (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 428</td>
<td>Developmental Psychology (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 429</td>
<td>Introduction to Personality Theory (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 430</td>
<td>Introduction to Psychopathology (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 431</td>
<td>Theories and Techniques of Psychological Testing (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 432</td>
<td>Social Psychology (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 433</td>
<td>Cognitive Psychology (Prerequisites: ENG 100/101 and PSY 100)</td>
</tr>
<tr>
<td>PSY 480</td>
<td>Senior Project (Two-month, 4.5 unit course) (Prerequisites: All other core courses)</td>
</tr>
</tbody>
</table>

Note: PSY 480 is not an approved course for accelerated study

**Upper-Division Electives**

(7 courses; 31.5 quarter units)

Students not pursuing a minor must choose seven upper-division electives from courses with the following prefixes: HB, PSY, SOC, HRM and CJ. Other electives must be approved by the department chair. Students may not take PSY 301 as an upper-division elective.

**General Electives**

In the absence of transfer credit, additional general electives may be necessary to satisfy total units for the degree. Students may not take PSY 301 as a general elective.

Students can take the following minors, recommended to accompany the Major in Psychology, in lieu of six electives:

◆ **Minor in Addictive Disorders**

(156)

This program is designed for students who plan to work in agencies that treat single or multiple addictions. It is also an excellent undergraduate program for students planning to pursue a Master of Arts in Counseling Psychology. Students with a Minor in Addictive Disorders are waived from CD 440 in the Psychology Major.

**Curriculum Requirements**

(6 courses; 27 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 460</td>
<td>Introduction to Addictive Disorders</td>
</tr>
<tr>
<td>PSY 461</td>
<td>Group Counseling with Addictive Disorders (Prerequisite: PSY 460)</td>
</tr>
<tr>
<td>PSY 462</td>
<td>Etiology and Treatment of Chemical Dependency (Prerequisite: PSY 460 and PSY 461)</td>
</tr>
<tr>
<td>PSY 463</td>
<td>Etiology and Treatment of Eating Disorders (Prerequisite: PSY 460 and PSY 461)</td>
</tr>
<tr>
<td>PSY 464</td>
<td>Etiology and Treatment of Sexual Addiction (Prerequisite: PSY 460 and PSY 461)</td>
</tr>
</tbody>
</table>
PSY 465 Counseling the Addictive Family System  
(Prerequisite PSY 460 and PSY 461)  

* A student entering the program with a CADAC certificate can take an elective rather than this class.

▲ Minor in Criminal Justice  
(466)

Curriculum Requirements  
(6 courses; 27 quarter units)

To fulfill the requirements for the minor in Criminal Justice, students can take any six courses listed as upper-division requirements for the major and beginning with CJ prefixes.

The following are recommended:

- CJ 427 Introduction to Criminal Justice
- CJ 437 The Juvenile Offender
- CJ 441 Organized and White Collar Crime
- CJ 440 Corrections
- CJ 431 Criminology
- CJ 452 Criminal Law

▲ Minor in Psychological Research  
(352)

This minor offers a comprehensive introduction to the area of research in psychology. (May not be offered at all campuses.)

Curriculum Requirements  
(6 courses; 27 quarter units)

- PSY 426 History of Psychology  
  (Prerequisites: ENG 100/101 and PSY 100)
- PSY 432 Social Psychology  
  (Prerequisites: ENG 100/101 and PSY 100)
- PSY 433 Cognitive Psychology  
  (Prerequisites: ENG 100/101 and PSY 100)
- PSY 435 Analysis of Data in Psychological Research  
  (Prerequisite: MTH 210)
- PSY 434 Psychological Research  
  (Prerequisite: PSY 435)
- PSY 436 Computer Applications in Psychology  
  (Prerequisite: ILR 260 and PSY 435)

◆ Major in English  
(610-111)

Faculty Advisor: John Miller • (714) 429-5146 • jmiller@nu.edu

The Bachelor of Arts with a Major in English provides a strong background in the study of English. The program stresses scholarship, diversity and critical thinking through a rigorous and focused curriculum of literature, composition, language and linguistics. The program is designed to thoroughly prepare students for teaching English in middle school or high school. It is also an excellent preparation for other pursuits, including graduate school in English, professional school, writing and publishing.

The program prepares candidates to teach English effectively in a diverse and changing community. It fosters candidates who write skillfully and who are prepared to identify the writing issues of future students. The program can be taken two ways: with the Single Subject Preparation or without the Single Subject Preparation.

Single Subject Preparation in English  
(610-114)

The Bachelor of Arts with a Major in English is approved by the California Commission on Teacher Credentialing for Single Subject Preparation in English.

Students taking the B.A. with a major in English who are not interested in the Single Subject Preparation need only take the nine courses listed as Upper-Division Requirements for the Major, including the prerequisite requirement. They do not have to take either ENG 300 or a concentration.

Degree Requirements  
To receive a Bachelor of Arts degree with a Major in English, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level. The following courses are degree requirements. In the absence of transfer credit, additional general electives may be necessary to satisfy total units for the degree.

Preparation for the Major  
(1 course; 4.5 quarter units)

- LIT 100 Introduction to Literature  
  (Prerequisites: ENG 101)

Upper-Division Requirements for the Major  
(9 courses; 40.5 quarter units)

- ENG 350 Fundamentals of Linguistics  
  (Prerequisite: ENG 100/101)
- ENG 352 Origins of English  
  (Prerequisite: ENG 100/101)
- ENG 365 Creative Writing  
  (Prerequisite: ENG 100/101)
- LIT 337 American Literature  
  (Prerequisite: ENG 100/101)
- LIT 342 World Literature  
  (Prerequisite: ENG 100/101)
- LIT 338 Shakespeare  
  (Prerequisite: LIT 100)
- LIT 446 Studies in Poetry  
  (Prerequisite: LIT 100)
- LIT 450 Studies in the Novel  
  (Prerequisite: ENG 100/101)
- LIT 460 Gender and Literature  
  (Prerequisite: ENG 100/101)

Additional Requirement for Single Subject Preparation students only  
(4.5 quarter units)

- ENG 300 English Practicum and Portfolio (should be taken as early in the student’s program as possible)

Upper-Division Concentrations  
(6 courses; 27 quarter units)

Single Subject Preparation candidates must select from one of the concentrations listed below. The following are recommended:
Note: Students who are not Single Subject Preparation candidates may choose from any of the courses listed under both concentrations to fulfill the total upper-division requirements for the degree.

▲ Concentration in Communications and Media Studies  
(169)

COM 360 Representation and Diversity in the Media  
(Prerequisite: ENG 101)
COM 385 Tale, Text and Hypertext  
(Prerequisites: ENG 100/101)
COM 380 Democracy in the Information Age  
(Prerequisite: ENG 100/101)
ENG 334A Technical Writing  
(Prerequisite: ENG 100/101)
GS 330 Film in an International Context  
(Prerequisite: ENG 100/101)
MM 330 Communication Tools  
(Prerequisite: ENG100/101; COM 100)
MM 340 Principles of Web Design  
(Prerequisite: ENG100/101; COM 100)
SOC 325 Contemporary Popular Culture  
(Prerequisite: ENG 100/101)
SOC 332 Contemporary American Society  
(Prerequisite: ENG 100/101)
SOC 336 American Film and Society  
(Prerequisite: ENG 100/101)

▲ Concentration in Letters  
(170)

ART 315 Film as Art  
(Prerequisite: ENG 100/101)
ENG 375 Nature Writing  
(Prerequisite: ENG 100/101)
HIS 341 History through Theater  
(Prerequisite: ENG 100/101)
HIS 350 Cultural Diversity  
(Prerequisite: ENG 100/101)
HIS 410 The California Experience  
(Prerequisite: ENG 100/101)
LIT 360 Literary Theory  
(Prerequisite: ENG 100/101)
LIT 430 Children’s Literature and Literacy  
(Prerequisite: ENG 100/101)
LIT 442 Mythology  
(Prerequisite: ENG 100/101)
LIT 443 World of the Short Story  
(Prerequisite: ENG 100/101)
LIT 456 Studies in Drama  
(Prerequisite: ENG 100/101)

◆ Major in Global Studies  
(610-107)
Faculty Advisor: Alex Zukas • (658) 642-8461 • azukas@nu.edu

Offered only over the Internet, the Global Studies Program provides students with the ability to think and act “globally.”  

The global environment in which economics, culture and technology converge is diverse, changing, complex and interdependent. By combining a variety of disciplines, this program provides a framework in which to understand and effectively negotiate global realities, whether they are economic, political, cultural, or ecological. The program gives students practice in using Internet technology, applying cultural understanding and exploring and developing potential markets for their ideas and talent. Students in this program learn to use global communications and information technologies to conduct research in a variety of electronic databases. Global Studies majors become knowledgeable in the cultures and practices of the world’s communities. Graduates understand the roles that ecology, gender, race, class, religion and ethnicity play in cultural environments and apply their understanding to everyday interactions among diverse cultures. Graduates also produce a portfolio that enables them to integrate the skills they have acquired and apply them to the solution of a real-world problem. This portfolio includes individual projects and a final, full-length project.

Degree Requirements

To obtain a Bachelor of Arts with a Major in Global Studies, students must complete at least 180 quarter units as listed below, 45 of which must be completed through National University and 76.5 of which must be completed at the upper-division level. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree. Students should refer to the section on undergraduate admission requirements for specific information regarding admission and matriculation.

If the foreign language requirement is not completed in General Education, the equivalent must be completed as preparation for the Global Studies major either by testing or by satisfactorily passing two courses in one of the following languages: Arabic, Chinese, French, German, Japanese, Portuguese, Russian, or Spanish. Other languages are acceptable upon approval of the director of the program. If a student opts to take the elective course GS 440, Study Abroad, additional fees, waivers, passports, visas, immunizations and other requirements may need to be fulfilled depending on the destination and it is the student’s responsibility to find out about these additional requirements and to meet them.

Preparation for the Major  
(2 courses; 9 quarter units)

ILR 260 Information Literacy and Report Writing  
HIS 234 World Civilizations II  
(Prerequisite: ENG100/101)

Upper-Division Requirements for the Major  
(14 Courses, 63 quarter units)

HIS 320 Culture, Capitalism and Technology in Modern World History  
(Prerequisites: ENG 100/101 and HIS 234)
SCI 300 Geography: Mapping the World  
GS 330 Film in an International Context  
(Prerequisite: ENG 240)
LIT 342 World Literature  
(Prerequisites: ENG 100/101)
COM 385 Tale, Text and Hypertext  
(Prerequisites: ENG 100/101)
GS 310 Global Communications and Information Technology  
(Prerequisite: ENG 240)
GS 430 The Global Economy  
(Prerequisite: ENG 240)
PHL 375 Environmental Ethics  
(Prerequisites: ENG 100/101)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 320</td>
<td>Comparative Religion</td>
<td>(Prerequisite: ENG 240)</td>
</tr>
<tr>
<td>SOC 328</td>
<td>Intercultural Thinking and Creativity</td>
<td>(Prerequisites: ENG 100/101)</td>
</tr>
<tr>
<td>HUM 501</td>
<td>Civic Culture and Global Awareness</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>GS 410</td>
<td>Gender Identity in a Global Context</td>
<td>(Prerequisite: ENG 240)</td>
</tr>
<tr>
<td>GS 420</td>
<td>Ecological Revolutions: Economics, Technology and the Global Environment</td>
<td>(Prerequisite: ENG 240)</td>
</tr>
<tr>
<td>GS 450</td>
<td>Global Studies Seminar and Final Project</td>
<td>(To be taken as final course in the major)</td>
</tr>
</tbody>
</table>

**Portfolio requirement for GS 450:** Students must complete a final portfolio project under the supervision of a faculty member. Students need to keep all graded work from all previous courses for possible inclusion in the portfolio.

**Upper Division Electives**
(2 Courses, 9 quarter units)

To fulfill upper division unit requirement, students may select from the courses listed below:

- ART 329 | World Art | (Prerequisites: ENG 100/101) |
- GS 320 | Technologies of Culture | (Prerequisite: ENG 240) |
- GS 331 | American Film in an International Context | (Prerequisite: ENG 240) |
- GS 440 | Study Abroad |
- HIS 325 | Work and Migration in Modern World History | (Prerequisite: ENG 100/101) |
- MUS 327 | World Music | (Prerequisites: ENG 100/101) |
- PS 320 | Politics of Social Movements | (Prerequisites: ENG 100/101) |

**Main in Interdisciplinary Studies**
(610-102)

Faculty Advisor: James Clevenger • (858) 642-8337 • jcleveng@nu.edu

The Bachelor of Arts with a Major in Interdisciplinary Studies (BAIS) provides a broad, rigorous education that introduces students to essential knowledge, connections across the disciplines and application of knowledge to life beyond the University. This degree program gives students an enriched and provocative curriculum that prepares them for professional work in a changing cultural and economic environment.

**Degree Requirements**

To receive a Bachelor of Arts degree with a Major in Interdisciplinary Studies, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level. The following courses are specific degree requirements. If students intend to complete a teacher credentialing program, these courses will help prepare for the MSAT and CBEST tests. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

**Preparation for the Major**
(4 courses; 18 quarter units)

The following courses, which satisfy general education requirements, are required to prepare for the BAIS major:

- ENG 240 | Advanced Composition | (Prerequisites: ENG 100/101) |
- ENG 365 | Creative Writing | (Prerequisites: ENG 100/101) |
- or |
- ENG 350 | Fundamentals of Linguistics | (Prerequisites: ENG 100/101) |
- HIS 220A | History of the United States I | (Prerequisites: ENG 100/101) |
- or |
- HIS 220B | History of the United States II | (Prerequisites: ENG 100/101) |
- LIT 100 | Introduction to Literature | (Prerequisites: ENG 100/101) |

**Upper-Division Requirements for the Major**
(11 courses; 49.5 quarter units)

All courses taken to complete the major must be at the 300, 400 or 500 level.

- COM 380 | Democracy in the Information Age | (Prerequisites: ENG 100/101) |
- SOC 336 | American Film and Society |
- or |
- HIS 350 | Cultural Diversity | (Prerequisites: ENG 100/101) |

4.5 quarter units in literature (LIT) are required. The following are recommended:

- LIT 446 | Studies in Poetry | (Prerequisites: ENG 100/101) |
- LIT 337 | American Literature | (Prerequisites: ENG 100/101) |
- LIT 338 | Shakespeare | (Prerequisites: ENG 100/101) |
- LIT 460 | Gender and Literature | (Prerequisites: ENG 100/101) |
- LIT 342 | World Literature | (Prerequisites: ENG 100/101) |
- LIT 450 | Studies in the Novel | (Prerequisites: ENG 100/101) |
- LIT 442 | Mythology | (Prerequisites: ENG 100/101) |

4.5 quarter units in social sciences (HIS, PS, SOC) are required. The following are recommended:

- HIS 320 | Culture, Capitalism and Technology in Modern World History | (Prerequisites: ENG 100/101 and SCI 300) |
- HIS 341 | History Through Theater | (Prerequisites: ENG 100/101) |
- HIS 410 | The California Experience | (Prerequisites: ENG 100/101) |
- SOC 332 | Contemporary American Society | (Prerequisites: ENG 100/101) |
- SOC 325 | Contemporary Popular Culture | (Prerequisites: ENG 100/101) |
- SOC 344 | Marriage, Sex and the Family | (Prerequisites: ENG 100/101) |
- SOC 430 | Culture, Technology and Society | (Prerequisites: ENG 100/101) |
- SOC 445 | Contemporary Social Problems | (Prerequisites: ENG 100/101) |
- SOC 540 | Power and Social Change | (Prerequisites: ENG 100/101) |
4.5 quarter units in behavioral sciences (HB, PSY) are required. The following are recommended:

**HB 420** Human Communication  
(Prerequisites: ENG 100/101 and PSY 100)

**HB 440** Organizational Development  
(Prerequisites: ENG 100/101 and PSY 100)

**PSY 426** History of Psychology  
(Prerequisites: ENG 100/101 and PSY 100)

**PSY 427** Biological Psychology  
(Prerequisites: ENG 100/101 and PSY 100)

**PSY 428** Developmental Psychology  
(Prerequisites: ENG 100/101 and PSY 100)

**PSY 429** Introduction to Personality Theory  
(Prerequisites: ENG 100/101 and PSY 100)

**PSY 432** Social Psychology  
(Prerequisites: ENG 100/101 and PSY 100)

**PSY 433** Cognitive Psychology  
(Prerequisites: ENG 100/101 and PSY 100)

Students should choose no fewer than 4.5 quarter units in natural science and 4.5 quarter units in mathematics. A third 4.5 quarter unit course (either SCI or MTH) must also be selected. Some of the mathematics courses may have more than one prerequisite. The following are recommended:

**SCI 300** Geography: Mapping the World
**SCI 330** Ecology
**SCI 411** Biodiversity
**SCI 450** Natural History of California

**MTH 209B** Structure and Concepts of Mathematical Fundamentals II  
(Prerequisite: MTH 209A)

**MTH 317** Mathematical Modeling  
(Prerequisites: MTH 215 or MTH 216A/B and MTH 210)

**MTH 410** Computer Technology in the Mathematics Classroom  
(Prerequisites: MTH 215 or MTH 216A/B or MTH 209B or placement evaluation)

**MTH 411** Number Theory  
(Prerequisite: MTH 215 or MTH 216A/B or MTH 209B or placement evaluation)

**MTH 412** History of Mathematics  
(Prerequisite: MTH 215 or MTH 216A/B)

**MTH 417** Foundations of Geometry  
(Prerequisites: MTH 207, MTH 216B and MTH 325)

**MTH 418** Statistical Analysis  
(Prerequisites: MTH 210 and MTH 220)

9 quarter units from the humanities complex (ART, HIS, HUM, MUS, PHL, SOC, THR) or global studies (GS) are required. The following are recommended:

**ART 315** Film as Art  
(Prerequisites: ENG 100/101)

**ART 323** Modern Art  
(Prerequisites: ENG 100/101)

**ART 329** World Art  
(Prerequisites: ENG 100/101)

**GS 410** Gender Identity in a Global Context  
(Prerequisites: ENG 100/101)

**HIS 345** Latin American Studies  
(Prerequisites: ENG 100/101)

**HIS 348** Asian Studies  
(Prerequisites: ENG 100/101)

**HIS 349** African Studies  
(Prerequisites: ENG 100/101)

**HIS 370** Cultures and History of the American Southwest  
(Prerequisites: ENG 100/101)

**MUS 326** Survey of American Music History

**MUS 327** World Music  
(Prerequisites: ENG 100/101)

**PHL 320** Comparative Religion  
(Prerequisites: ENG 100/101)

**PHL 339** Study of a Major Philosopher  
(Prerequisites: ENG 100/101)

**PHL 375** Environmental Ethics  
(Prerequisites: ENG 100/101)

**PHL 437** Ethics  
(Prerequisites: ENG 100/101)

**SOC 328** Intercultural Thinking and Creativity  
(Prerequisites: ENG 100/101)

**SOC 500** Cultural Pluralism in American Society  
(Prerequisites: ENG 100/101)

**Capstone Course**  
(1 course. 4.5 quarter units)

**BIS 490** Interdisciplinary Studies Seminar

**Upper-Division Electives**  
(6 courses; 27 quarter units)

Students can select any 300-, 400-, or 500-level courses in arts and sciences to complete the total of 76.5 upper-division units for the degree.

**Interdisciplinary Studies Minors**

In addition to the requirements for the Major in Interdisciplinary Studies, students may choose one of the following minors:

- Business Studies (451), under School of Business and Information Management Minors
- Mathematics (153), under School of Arts and Sciences Minors

◆ **Major in Multiple Subjects**

(610-116)

**Faculty Advisor**: Jacque Lynn Foltyn • (858) 642-8469 • jfoltyn@nu.edu

The Bachelor of Arts in Multiple Subjects (BAMS) provides a broad, rigorous education that engages students with core knowledge, connections across the disciplines and application of knowledge to life beyond the university, particularly in the field of elementary school teaching. The program emphasizes the study of concepts that form the content areas of language study, literature, mathematics, science, social science, history, humanities, the arts and human development. This degree program gives students an enriched and provocative curriculum that prepares them for professional work as multiple subject teachers in a changing cultural and economic environment.

**Degree Requirements**

To receive a Bachelor of Arts in Multiple Subjects, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level. The following courses are specific degree requirements. Students should refer to the section on undergraduate admission requirements for specific information regarding admission and matriculation.

In compliance with new federal regulations (No Child Left Behind), the California Commission on Teacher Credentialing can no longer accept an “equivalency letter” in lieu of the requirement of the multiple-subject competency examination. All students seeking a multiple-subject credential must demonstrate subject-matter competency through a state approved examination. The major in Multiple Subjects is designed to prepare students for the competency examination.
Note: Students must take PSY 301 within the first six courses of enrollment.

Preparation for the Major

The General Education courses indicated below are non-negotiable due to the subject matter equivalency.

Required

AREA A: ENGLISH COMMUNICATION
(15 quarter units required)

CATEGORY 1
Writing (10.5 quarter units required)
ENG 100 Effective College English, Part I
(3 quarter units)
ENG 101 Effective College English, Part II
(3 quarter units)
ENG 240 Advanced Composition
(Prerequisites: ENG 100/101)

CATEGORY 2
Speech and Communication (4.5 quarter units required)
COM 100 Introduction to Communications
or
COM 200 Effective Communication

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
(9 quarter units required)
MTH 209A Structures and Concepts of Mathematical Fundamentals
MTH 209B Structures and Concepts of Mathematical Fundamentals II
(Prerequisites: MTH 209A)

AREA C: INFORMATION LITERACY AND TECHNOLOGY
(4.5 quarter units required)
ILR 260 Information Literacy and Report Writing
(Prerequisite: ENG 240)

AREA D: ARTS AND HUMANITIES
(22.5 quarter units required)
HIS 233 World Civilizations I
(Prerequisites: ENG100/101)
HIS 234 World Civilizations II
(Prerequisites: ENG100/101)
LIT 100 Introduction to Literature
(Prerequisites: ENG 100/101)
ART 200 Visual Arts
MUS 100 Fundamentals of Music

AREA E: SOCIAL AND BEHAVIORAL SCIENCES
(9 quarter units required)
HIS 220A History of the United States I (includes study of the Constitution)
(Prerequisites: ENG 100/101)
HIS 220B History of the United States II
(Prerequisites: ENG 100/101)

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES
(10.5 quarter units required)
SCI 100 Survey of Bioscience
SCI 100A Survey of Bioscience Laboratory
(1.5 quarter units)
SCI 102 Survey of Physical Science

AREA G: MODERN LANGUAGE
(9 quarter units required)
LAS 100 Spanish I
LAS 200 Spanish II
LAS 300 Spanish III
LAS 101 Spanish for Native Speakers I
LAS 201 Spanish for Native Speakers II

(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.)

AREA A-G GENERAL EDUCATION
(4.5 quarter units minimum)
COM 380 Democracy in the Information Age [+]
(Prerequisites: ENG100/101)
HIS 300 Foundations of Western Civilization
(Prerequisites: ENG100/101)
HIS 350 Cultural Diversity [+]
(Prerequisites: ENG100/101)
LIT 342 World Literature
(Prerequisites: ENG100/101)
PHL 375 Environmental Ethics
(Prerequisites: ENG100/101)
SCI 300 Geography [+]
SOC 260 Cultural Anthropology
(Prerequisites: ENG100/101)

Upper-Division Requirements for the Major
(12 courses; 48 quarter units)

Reading, Language, Literature
(4 courses; 15 quarter units)
LIT 337 American Literature
(Prerequisites: ENG 100/101)
ENG 350 Fundamentals of Linguistics
(Prerequisites: ENG 100/101)
LIT 430 Children’s Literature and Literacy (must be taken in tandem with LIT 430A)
(Prerequisites: ENG 100/101, LIT 100, ENG 350, PSY 301)

History and Social Science
(3 courses; 13.5 quarter units)
SCI 300 Geography: Mapping the World
(Prerequisites: ENG 100/101)
PHL 320 Comparative Religion
(Prerequisites: ENG 100/101)
HIS 410 California History
(Prerequisites: ENG 100/101)
School of Arts and Sciences

Mathematics and Science
(1 course; 4.5 quarter units)
SCI 301 Earth and Planetary Science

Visual and Performing Arts
(2 courses; 6 quarter units)
ART 400 Expressive and Integrated Arts (must be taken in tandem with ART 400A)
(Prerequisites: ENG 100/101, MSM 301, ART 200, MUS 100, PSY 301)

Physical Education, Health, Human Development
(2 courses; 9 quarter units)
MSM 301 Teaching Elementary Physical Education
PSY 301 Child and Adolescent Development (requires observation hours)
(Prerequisites: ENG 100/101)

Depths
The BAMS candidate chooses one depth-study in a specific area. The depth consists of four required upper-division courses (listed below) that are not duplicated in any other part of the candidate’s program. All BAMS degree candidates must take MSM 499. Students should take MSM 499 as the last course; if scheduling MSM 499 as the last course is not possible, students may take it as one of the last two; all prerequisites must be met.

Literature (158)
(4 courses; 18 quarter units)
LIT 342 World Literature
(Prerequisites: ENG 100/101)
LIT 446 Studies in Poetry
(Prerequisites: ENG 100/101, LIT 100)
LIT 460 Gender and Literature
(Prerequisites: ENG 100/101)
MSM 499 Multiple Subject Matter Capstone
(Prerequisite: LIT 342 or SCI 335 or HIS 341)

Environmental Studies (159)
(4 courses; 18 quarter units)
SCI 322 Oceanography
SCI 335 Environmental Science
SCI 411 Biodiversity
MSM 499 Multiple Subject Matter Capstone
(Prerequisite: LIT 342 or SCI 335 or HIS 341)

Fine and Performing Arts (160)
(4 courses; 18 quarter units)
HIS 341 History Through Theater
(Prerequisites: ENG 100/101)
ART 329 World Art
(Prerequisites: ENG 100/101)
MUS 327 World Music
(Prerequisites: ENG 100/101)
MSM 499 Multiple Subject Matter Capstone
(Prerequisite: LIT 342 or SCI 335 or HIS 341)

History/Social Science (175)
(4 courses; 18 quarter units)
HIS 341 History Through Theater
(Prerequisites: ENG 100/101)
HIS 345 Latin American Studies
(Prerequisites: ENG 100/101)
SOC 445 Contemporary Social Problems
(Prerequisites: ENG 100/101)
MSM 499 Multiple Subject Matter Capstone
(Prerequisite: LIT 342 or SCI 335 or HIS 341)

Upper-Division Electives
Students can select any 300,400, or 500 level degree related electives to complete the total of 76.5 upper-division units for the degree.

◆ Major in Multimedia Arts
(610-115)
Faculty Advisor: Michael McAnear • (858) 642-8466 • mmcanear@nu.edu

The Bachelor of Arts in Multimedia Arts consists of courses that prepare the student for a broad range of positions requiring a background in computer multimedia design theory, production and project management. Students receive hands-on training in leading software applications, while they learn and apply multimedia development theory and practice for online delivery and CD-ROM production. Graduates of the program are in high demand because they possess a combination of skills and knowledge vital to today’s workplace. Positions in marketing, business, publishing, government, education and training include Web Designer/Developer, Graphic Designer, Project Manager and Multimedia Specialist.

Degree Requirements
To receive a Bachelor of Arts degree with a Major in Multimedia Arts, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level. The following courses are specific degree requirements. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

Students are expected to possess or have access to a computer outside of National University so that they can work on projects both on and off campus. Given the nature of multimedia arts technology, this computer should be a Pentium II with a 128 Megabytes of RAM or better.

Preparation for the Major
(2 courses; 9 quarter units)

Introductory Courses
COM 100 Introduction to Communications
IS 301 Management Information Systems

Upper Division Requirements for the Major: Core Courses
(11 courses; 49.5 quarter units)

MM 330 Communication Tools
(Prerequisite: ENG100/101; COM100)
MM 331 Principles of Graphic Design
(Prerequisite: ENG100/101; COM100)
MM 332 Electronic Design and Layout
(Prerequisite: ENG100/101; COM100)
*Elective scheduled here in sequence
MM 340 Principles of Web Design
(Prerequisite: ENG100/101; COM100)
**Major in Psychology**

*(610-104)*

**Faculty Advisor:** John Carta-Falsa • (714) 429-5135 • jcartafa@nu.edu

The Bachelor of Arts with a Major in Psychology offers a comprehensive introduction to the contemporary discipline of psychology. Graduates of this program are well prepared to seek employment in personnel, vocational counseling, criminal justice, journalism, or entry-level counseling in the context of a county-funded agency or hospital. They are also prepared to seek admission to graduate programs at the master’s or doctoral level. The primary program outcomes and competencies are:

- competency in classification and research of psychopathology.
- knowledge and understanding of developmental psychology throughout the life span.
- mastery of theory and research of personality and psychological characteristics of the individual.
- knowledge of clinical theories of psychological treatment including specific treatment approaches, therapeutic relationship, and intervention strategies and techniques.
- ability to write a comprehensive paper that covers empirical and theoretical study of a specific topic related to the major.
- understanding of the history of substance abuse, and individual social, cultural, and institutional values that underlie substance abuse and dependency.
- knowledge of the social service structure for prevention and treatment of substance abuse and dependency.
- knowledge of neurological, physiological, and biological bases of behavior.
- knowledge of theory and principles of psychological assessments and measurement, and the understanding of uses/abuses of a variety of standardized assessment instruments.
- sensitivity to diversity issues and awareness of multiculturalism.

### Degree Requirements

To receive a Bachelor of Arts degree with a Major in Psychology, students must complete at least 180 quarter units as articulated below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. The following courses are specific degree requirements. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

#### Preparation for the Major

(3 courses; 13.5 quarter units)

These courses can be used to satisfy general education requirements.

- **ILR 260** Information Literacy and Report Writing  
  *(Prerequisites: ENG100/101)*
- **MTH 210** Introduction to Probability and Statistics  
  *(Prerequisite: Placement Evaluation)*
- **PSY 100** Introduction to Psychology

#### Upper-Division Requirements for the Major

(9 courses; 40.5 quarter units)

- **PSY 427** Biological Psychology  
  *(Prerequisites: ENG 100/101 and PSY 100)*
- **PSY 428** Developmental Psychology  
  *(Prerequisites: ENG 100/101 and PSY 100)*  
  *(PSY301 may not be substituted for this course)*
- **PSY 429** Introduction to Personality Theory  
  *(Prerequisites: ENG 100/101 and PSY 100)*

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**Upper Division Electives**

Students must complete a minimum of 22.5 quarter units (5 courses) of electives to fulfill the unit requirements to earn the Bachelor of Arts in Multimedia Arts. Students can select from the following recommended electives OR choose any upper division course in the School of Arts and Sciences, as well as any upper division CST course in the School of Business and Information Management. Four elective courses must be in the Multimedia Arts program (MM).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM 335</td>
<td>Desktop Publishing</td>
<td>(Prerequisite: ENG100/101; MM332)</td>
</tr>
<tr>
<td>MM 410</td>
<td>Authoring Corporate Training I</td>
<td>(Prerequisite: ENG100/101)</td>
</tr>
<tr>
<td>MM 411</td>
<td>Authoring Corporate Training II</td>
<td>(Prerequisite: ENG100/101; MM410)</td>
</tr>
<tr>
<td>MM 430</td>
<td>Advanced 2-D Graphic Imaging</td>
<td>(Prerequisite: ENG100/101; MM336)</td>
</tr>
<tr>
<td>MM 445</td>
<td>Management of Web Projects</td>
<td>(Prerequisite: ENG100/101; MM440)</td>
</tr>
<tr>
<td>MM 450</td>
<td>Advanced Web Presentation</td>
<td>(Prerequisite: ENG100/101; MM350; MM340)</td>
</tr>
<tr>
<td>MM 460</td>
<td>Advanced Digital Audio and Video</td>
<td>(Prerequisite: ENG100/101; MM360)</td>
</tr>
<tr>
<td>MM 470</td>
<td>Interactive Multimedia</td>
<td>(Prerequisite: ENG100/101; MM370)</td>
</tr>
<tr>
<td>MM 471</td>
<td>Advanced Interactivity for 3-D</td>
<td>(Prerequisite: ENG100/101; MM470)</td>
</tr>
<tr>
<td>MM 480</td>
<td>3-D Animation</td>
<td>(Prerequisite: ENG100/101; MM380)</td>
</tr>
<tr>
<td>MM 481</td>
<td>Character Animation</td>
<td>(Prerequisite: ENG100/101; MM480)</td>
</tr>
<tr>
<td>ENG 333</td>
<td>Written Business Communication</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>ENG 334A</td>
<td>Technical Writing</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>COM 422</td>
<td>Technical Writing and Presentation</td>
<td>(Prerequisite: ENG100/101; ENG 334A)</td>
</tr>
<tr>
<td>ART 315</td>
<td>Film as Art</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>ART 323</td>
<td>Modern Art</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>ART 329</td>
<td>World Art</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>SCI 300</td>
<td>Geography: Mapping the World</td>
<td></td>
</tr>
</tbody>
</table>

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**Upper-Division Electives**

Students can select from the following recommended electives OR choose any upper division course in the School of Arts and Sciences, as well as any upper division CST course in the School of Business and Information Management. Four elective courses must be in the Multimedia Arts program (MM).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM 350</td>
<td>Web Presentation</td>
<td>(Prerequisite: ENG 100/101; MM 332; MM 340)</td>
</tr>
<tr>
<td>MM 440</td>
<td>Multimedia Design for the Web</td>
<td>(Prerequisite: ENG 100/101; MM 340)</td>
</tr>
<tr>
<td>MM 336</td>
<td>2-D Graphic Imaging</td>
<td>(Prerequisite: ENG 100/101; MM 331; MM 332)</td>
</tr>
<tr>
<td>MM 360</td>
<td>Digital Audio and Video</td>
<td>(Prerequisite: ENG 100/101; COM 100)</td>
</tr>
<tr>
<td>MM 370</td>
<td>Digital Interactivity</td>
<td>(Prerequisite: ENG 100/101; MM 332 OR MM 336)</td>
</tr>
<tr>
<td>MM 380</td>
<td>3-D Modeling and Rendering</td>
<td>(Prerequisite: ENG 100/101; COM 100)</td>
</tr>
<tr>
<td>MM 420</td>
<td>Portfolio Project</td>
<td>(Prerequisites: all other core courses)</td>
</tr>
</tbody>
</table>

* Two-month class

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**Upper-Division Electives**

Students must complete a minimum of 22.5 quarter units (5 courses) of electives to fulfill the unit requirements to earn the Bachelor of Arts in Multimedia Arts. Students can select from the following recommended electives OR choose any upper division course in the School of Arts and Sciences, as well as any upper division CST course in the School of Business and Information Management. Four elective courses must be in the Multimedia Arts program (MM).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM 335</td>
<td>Desktop Publishing</td>
<td>(Prerequisite: ENG100/101; MM332)</td>
</tr>
<tr>
<td>MM 410</td>
<td>Authoring Corporate Training I</td>
<td>(Prerequisite: ENG100/101)</td>
</tr>
<tr>
<td>MM 411</td>
<td>Authoring Corporate Training II</td>
<td>(Prerequisite: ENG100/101; MM410)</td>
</tr>
<tr>
<td>MM 430</td>
<td>Advanced 2-D Graphic Imaging</td>
<td>(Prerequisite: ENG100/101; MM336)</td>
</tr>
<tr>
<td>MM 445</td>
<td>Management of Web Projects</td>
<td>(Prerequisite: ENG100/101; MM440)</td>
</tr>
<tr>
<td>MM 450</td>
<td>Advanced Web Presentation</td>
<td>(Prerequisite: ENG100/101; MM350; MM340)</td>
</tr>
<tr>
<td>MM 460</td>
<td>Advanced Digital Audio and Video</td>
<td>(Prerequisite: ENG100/101; MM360)</td>
</tr>
<tr>
<td>MM 470</td>
<td>Interactive Multimedia</td>
<td>(Prerequisite: ENG100/101; MM370)</td>
</tr>
<tr>
<td>MM 471</td>
<td>Advanced Interactivity for 3-D</td>
<td>(Prerequisite: ENG100/101; MM470)</td>
</tr>
<tr>
<td>MM 480</td>
<td>3-D Animation</td>
<td>(Prerequisite: ENG100/101; MM380)</td>
</tr>
<tr>
<td>MM 481</td>
<td>Character Animation</td>
<td>(Prerequisite: ENG100/101; MM480)</td>
</tr>
<tr>
<td>ENG 333</td>
<td>Written Business Communication</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>ENG 334A</td>
<td>Technical Writing</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>COM 422</td>
<td>Technical Writing and Presentation</td>
<td>(Prerequisite: ENG100/101; ENG 334A)</td>
</tr>
<tr>
<td>ART 315</td>
<td>Film as Art</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>ART 323</td>
<td>Modern Art</td>
<td>(Prerequisite: ENG 100/101)</td>
</tr>
<tr>
<td>ART 329</td>
<td>World Art</td>
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<tr>
<td>SCI 300</td>
<td>Geography: Mapping the World</td>
<td></td>
</tr>
</tbody>
</table>
School of Arts and Sciences

PSY 430  Introduction to Psychopathology  
(Prerequisites: ENG 100/101 and PSY 100)

PSY 431  Theories and Techniques of Psychological Testing  
(Prerequisites: ENG 100/101 and PSY 100)

PSY 437  Theories of Psychotherapy  
(Prerequisites: ENG 100/101 and PSY 100)

CD 440  Drugs, Values and Society

PSY 480  Senior Project (Two-month, 4.5-unit course) Student may not enroll in another course while taking PSY 480  
(Prerequisites: All other core courses)

Upper-Division Electives  
(7 courses; 31.5 quarter units)

Students not pursuing a minor must choose seven upper-division electives from courses with the following prefixes: HB, PSY, SOC, HRM and CJ. Other electives must be approved by the department chair or regional full-time or associate faculty. Students may not take PSY 301 as an upper division elective.

Recommended Minors

Students can take the following minors, recommended to accompany the Major in Psychology, in lieu of six electives:

▲ Minor in Addictive Disorders  
(156)

This program is designed for students who plan to work in agencies that treat single or multiple addictions. It is also an excellent undergraduate program for students planning to pursue a Master of Arts in Counseling Psychology. Students with a Minor in Addictive Disorders are waived from CD 440 in the Psychology Major.

Curriculum Requirements  
(6 courses; 27 quarter units)

PSY 460  Introduction to Addictive Disorders
PSY 461  Group Counseling with Addictive Disorders  
(Prerequisite: PSY460)
PSY 462  Etiology and Treatment of Chemical Dependency*  
(Prerequisites: PSY460 and PSY461)
PSY 463  Etiology and Treatment of Eating Disorders  
(Prerequisites: PSY460 and PSY461)
PSY 464  Etiology and Treatment of Sexual Addiction  
(Prerequisites: PSY460 and PSY461)
PSY 465  Counseling the Addictive Family System  
(Prerequisites: PSY460 and PSY461)

* A student entering the program with a CADAC certificate can take an elective rather than this class.

▲ Minor in Criminal Justice  
(466)

Curriculum Requirements  
(6 courses; 27 quarter units)

To fulfill the requirements for the minor in Criminal Justice, students can take any six courses listed as upper-division requirements for the major and beginning with CJ prefixes.

The following are recommended:

CJ 434  Survey of Forensic Science
CJ 437  The Juvenile Offender

CJ 438  Organized Crime
CJ 440  Corrections
CJ 444  Analysis of Criminal Behavior
CJ 452  Criminal Law

▲ Minor in Psychological Research  
(352)

This minor offers a comprehensive introduction to the area of research in psychology. (May not be offered at all campuses.)

Curriculum Requirements  
(6 courses; 27 quarter units)

PSY 426  History of Psychology  
(Prerequisites: ENG 100/101 and PSY 100)
PSY 432  Social Psychology  
(Prerequisites: ENG 100/101 and PSY 100)
PSY 433  Cognitive Psychology  
(Prerequisites: ENG 100/101 and PSY 100)
PSY 435  Analysis of Data in Psychological Research  
(Prerequisites: MTH 210)
PSY 434  Psychological Research  
(Prerequisite: PSY 435)
PSY 436  Computer Applications in Psychology  
(Prerequisites: ILR260 and PSY435)

▲ BACHELOR OF SCIENCE (B.S.)  
(620)

General Education Program Requirements

Faculty Advisor: Alice Scharper • (530) 226-4003 • ascharpe@nu.edu

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

AREA A:  ENGLISH COMMUNICATION  
(minimum 15 quarter units)

AREA B:  MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING  
(minimum 4.5 quarter units)

AREA C:  INFORMATION LITERACY  
(minimum 4.5 quarter units)

AREA D:  ARTS AND HUMANITIES  
(minimum 13.5 quarter units)

AREA E:  SOCIAL AND BEHAVIORAL SCIENCES  
(minimum 13.5 quarter units)

AREA F:  PHYSICAL AND BIOLOGICAL SCIENCES  
(minimum 6 quarter units required [Note: one science lab is required])

AREA G:  MODERN LANGUAGE  
(minimum 9 quarter units)

(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.)
AREA A-G: GENERAL EDUCATION
(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

◆ Major in Earth Sciences
(620-113)
Faculty Advisor: Thomas Hahn • (858) 642-8457 • thahn@nu.edu

The Bachelor of Science with a major in Earth Sciences provides a strong foundation in mathematics and earth sciences. This major is designed to serve the needs of students who plan to teach at elementary or secondary level(s) and is also useful for those preparing for careers in science education, or in science-related business, engineering, or technology.

Other students who wish a broad, interdisciplinary approach should look closely at the benefits provided by the major. In addition to meeting requirements for a Bachelor of Science degree, it provides for moderate intensification in one field of science without sacrificing an interdisciplinary approach and background in other areas of mathematics and earth sciences. Earth Science majors are not eligible for a double major in mathematics or any of the component sciences in the program.

The School of Arts and Sciences is committed to the complete academic development of its students. Consequently, where practical, all mathematics and science course are writing-intensive and incorporate a diversity component. Please note that all mathematics and science courses contain a critical thinking component by their very nature.

Curriculum Requirements

To receive a Bachelor of Science degree with a Major in Earth Sciences, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level. In the absence of transfer credit, additional general electives may be necessary to satisfy total units for the degree. Refer to the section on undergraduate admission requirements for specific information regarding admission and matriculation.

Program Requirements

To prepare for a major in Earth Sciences, students must demonstrate proficiency in the fundamental concepts of earth and life sciences and introductory mathematics through successful completion of the following courses. Some of these courses may also be used to satisfy general education requirements.

Preparation for the Major
(10 courses; 33 quarter units)

- MTH 215 College Algebra and Trigonometry
- SCI 102 Survey of Physical Science
- SCI 100 Survey of Bioscience
- SCI 100A Survey of Bioscience Laboratory (1.5 quarter units) (Prerequisite: SCI 100)
- SCI 101 General Chemistry
- SCI 101A General Chemistry Laboratory (1.5 quarter units) (Prerequisite: SCI 101)
- SCI 103 Fundamentals of Geology
- SCI 103A Fundamentals of Geology Laboratory (1.5 quarter units) (Prerequisite: SCI 103)
- SCI 104 General Physics (Prerequisite: Satisfactory completion of high school algebra or equivalent)
- SCI 104A General Physics Laboratory (1.5 quarter units) (Prerequisite: SCI 104)

Requirements for the Major

Core Requirements
(8 courses; 36 quarter units)

- MTH 317 Mathematical Modeling
- SCI 330 Ecology
- SCI 335 Environmental Science
- SCI 400 History of Science
- SCI 411 Biodiversity
- SCI 301 Earth and Planetary Sciences
- SCI 322 Oceanography
- SCI 490 Guided Study (4.5 quarter Field Study units)

Upper-Division Electives
(8 courses; 36 quarter units)

Students may select only 300-, 400-, or 500-level courses in the School of Arts and Sciences to complete the total of 76.5 upper-division units for the degree.

◆ Major in Liberal Studies
(620-412)
Faculty Advisor: Margaret Greer • (916) 855-4151 • mgreer@nu.edu

The Bachelor of Science with a Major in Liberal Studies (BSLS) is designed to meet the needs of an increasing body of students who have completed considerable study in diverse subject areas, both academic and applied. This program allows students to organize their varied explorations into a coherent degree program. The BSLS is unique among academic curricula, for it liberates students from the burden of repeating course work in order to fulfill traditional degree requirements. The degree allows students to explore a wide variety of disciplines. It integrates both applied study (e.g., business, nursing, computer science, military science) and arts and sciences to an extent not currently available in other degree programs. This is particularly important for adults who often interrupt their studies for prolonged periods and return with a different academic focus and career goal. The liberal studies degree allows adult learners to continue moving forward without retracing a considerable portion of their study.

Degree Requirements

To receive a Bachelor of Science degree with a Major in Liberal Studies, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level.

In addition to the above University general education requirements, two depths are required. A depth for the Liberal Studies degree program is defined as 22.5 quarter units in a given discipline. A Liberal Studies depth differs from a major or a concentration in the reduced number of credits that are required. The first depth

...
School of Arts and Sciences

requirement is fulfilled by acquiring 22.5 quarter units in an Arts and Sciences discipline such as natural sciences, mathematics, literature, history, or social science, and nine of the quarter units must be completed at the upper-division level. For example: If a student was pursuing a literature depth, they would need five courses with a Literature prefix. The second depth requirement is fulfilled by completing 22.5 quarter units in either a single Applied Studies or Arts and Science discipline, with at least nine of the quarter units completed at the upper-division level. If a student selects the second depth in the Applied Studies discipline, such as management, law, accounting, or marketing, all five courses must have the same prefix such as MGT if the management discipline was selected. However students do have the option of selecting a second depth in Arts and Sciences rather than Applied Studies. If a second depth in Arts and Sciences is selected, then students have the option of choosing five courses from various disciplines within the Arts and Sciences area.

**Preparation for the Major**
(1 course; 4.5 quarter units)

ENG 240 Advanced Composition
*(Prerequisites: ENG 100/101)*

**Depth Requirement**
(10 courses; 45 quarter units)

Each student in the BLS is required to complete two depth requirements of 22.5 units each. Each of the depth requirements must include at least nine-quarter units of upper-division work. Students can take courses from a variety of areas to satisfy the Arts and Sciences depth requirements. These courses could be used alone or in combination with courses taken at other institutions. Listed below are examples of course areas that can be used to fulfill a depth requirement:

**Arts and Sciences**
(5 courses; 22.5 quarter units)

- Literature
- Environmental Studies
- Fine and Performing Arts
- History
- Social Sciences
- Communications

**Applied Study**
(5 courses; 22.5 quarter units)

Students can also use courses from the listed areas to satisfy the depth requirement in Applied Study. These courses could be used on their own or in combination with related courses at other institutions.

- Law
- Management
- Accounting
- Information Technology
- Criminal Justice
- Marketing
- Human Resource Management

**Portfolio Requirement:** HUM 499
(1 course; 4.5 quarter units)

In addition to the above course work, students must complete a final portfolio project under the supervision of a faculty member. During this portfolio project, students map out the mosaic of their academic accomplishments and find the internal coherence of their intellectual explorations. To fulfill the portfolio requirement, students need to save and maintain a file of all papers written for their classes. These will be revised and included in the portfolio.

**Upper-Division Electives**
(5 courses; 22.5 quarter units)

To fulfill their unit requirements, students can choose electives from any 300-, 400-, or 500-level courses for which they meet prerequisites.

◆ **Major in Life Sciences**
(620-112)

Faculty Advisor: Thomas Hahn • (858) 642-8457 • thahn@nu.edu

The Bachelor of Science with a major in Life Sciences provides a strong foundation in mathematics and life sciences. This major is designed to serve the needs of students who plan to teach at elementary or secondary level(s) and is also useful for those preparing for careers in the health sciences, in science education, or in science-related business, engineering, technology or social service fields.

Other students who wish to broaden, interdisciplinary approach should look closely at the benefits provided by the major. In addition to meeting requirements for a Bachelor of Science degree, it provides for moderate intensification in one field of science without sacrificing an interdisciplinary approach and background in other areas of mathematics and life sciences. Life Sciences majors are not eligible for a double major in mathematics or any of the component sciences in the program.

The School of Arts and Sciences is committed to the complete academic development of its students. Consequently, where practical, all mathematics and science course are writing-intensive and incorporate a diversity component. Please note that all mathematics and science courses contain a critical thinking component by their very nature.

**Curriculum Requirements**

To receive a Bachelor of Science degree with a Major in Life Sciences, Students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper division level. In the absence of transfer credit, additional general electives may be necessary to satisfy total units for the degree. Refer to the section on undergraduate admission requirements for specific information regarding admission and matriculation.

**Program Requirements**

To prepare for a major in Life Sciences, students must demonstrate proficiency in the fundamental concepts of life sciences and introductory mathematics through successful completion of the following courses. Some of these courses may also be used to satisfy general education requirements.

**Preparation for the Major**
(8-9 courses; 27-28.5 quarter units)

- MTH 210 Introduction to Probability and Statistics
  *(Prerequisite: Placement Evaluation)*
- MTH 215 College Algebra and Trigonometry
  *(Prerequisite: Placement Evaluation)*
or
- MTH 216A College Algebra and Trigonometry I
  *(Prerequisite: Placement Evaluation)*
and
MTH 216B College Algebra and Trigonometry II
(Prerequisite: Placement Evaluation)

SCI 100 Survey of Bioscience
SCI 100A Survey of Bioscience Laboratory
(1.5 quarter units)(Prerequisite: SCI 100)
SCI 101 General Chemistry
SCI 101A General Chemistry Laboratory
(1.5 quarter units)(Prerequisite: SCI 101)
SCI 104 General Physics
(Prerequisite: Successful completion of high school algebra or equivalent)
SCI 104A General Physics Laboratory
(1.5 quarter units)
(Prerequisite: SCI 104)

Upper-Division Requirements for the Major

Core Requirements
(11 courses; 43.5 quarter units)

MTH 317 Mathematical Modeling
(Prerequisite: MTH 210 and MTH 215 or MTH 210 and MTH 216A/B)

SCI 330 Ecology
SCI 335 Environmental Science
SCI 400 History of Science
SCI 411 Biodiversity
SCI 405 Introduction to Cell and Molecular Biology
SCI 405A Introduction to Cell and Molecular Biology Laboratory
(1.5 quarter units)
(Prerequisite: SCH405)

SCI 412 General Zoology
SCI 412A General Zoology Laboratory
(1.5 quarter units)
(Prerequisite: SCI412)

SCI 420 Animal Behavior
SCI 408 Introduction to Genetics and Heredity

Upper-Division Electives
(7 courses; 31.5 quarter units)

Students may select only 300-, 400-, or 500-level courses in the School of Arts and Sciences to complete the total of 76.5 upper-division units for the degree.

◆ Major in Mathematics
(620-105)
Faculty Advisor: Igor Subbotin • (310) 258-6717 • isubbotti@nu.edu

The Bachelor of Sciences with a Major in Mathematics provides a strong foundation in mathematics and its applications. Designed to help address our nation’s increasing need for mathematical scientists, technicians and especially teachers, the program emphasizes reflective and conceptual understanding and technique. First, it provides the fundamental mathematical knowledge to formulate and solve problems in industry and research (concentration in mathematics and applications). Computer Science courses are encouraged, since the use of computers has been instrumental in the expansion of these opportunities. Students who want a basic mathematics degree can culminate their program with the project courses.

Second, the program trains mathematics teachers who want to provide quality mathematical instruction to students in primary or secondary schools. The Single-Subject Teaching Concentration was created for this purpose.

The Department of Mathematics Sciences and Humanities is committed to the complete academic development of its students. Consequently, where practical, all mathematics and science courses are writing-intensive and incorporate a diversity component. Students are advised that all mathematics courses encourage critical thinking by their very nature. Moreover, all mathematics courses require that the student purchase and use a scientific calculator for the operations of the subject matter. Some courses require a more advanced graphing calculator and computer software.

Single-Subject Mathematics Preparation Program

The Single-Subject Mathematics Preparation Program is approved by the California Commission on Teacher Credentialing. The program emphasizes a strong foundation in mathematical content together with activities designed to help future teachers assume leadership roles in an increasingly complex educational world.

Interested students should follow the following application process:

• send a letter to the Department of Mathematics requesting admission to the programs and copies of transcripts to the Department for evaluation
• upon enrollment, submit two essays for the Mathematics Portfolio (Instructions are sent upon receipt of the request letter)

In addition, students must complete all required courses from the Single-Subject Teaching Concentration (MTH 410, MTH 460, MTH 461, MTH 450).

National University Student Assessment Portfolio

A portfolio is a bound collection of work used to assess your experience with the program and also to provide employment materials. Therefore, you must be mindful about the quality of every component. The portfolio is a folder maintained in the School of Arts and Sciences. The portfolio shows the student involvement in math conferences, professional experiences, or other math related materials needed for employment.

The portfolio represents the student and the student’s scholarship and must be professional and neat in appearance.

The student should schedule an appointment to review their portfolio two classes before the last class with the Department Chair or Lead Faculty. At this time the portfolio is graded as “Complete”, “Incomplete”, or “Needs Improvement”. Portfolios needing improvement may be revised for reassessment one month before the last class.

DESCRIPTION OF EACH PORTFOLIO ITEM AND TIMELINE:

DESCRIPTION DATE DUE
1. Essay #1: Immediately upon entry into the program. Upon acceptance Be brief, one to two pages typed. Clearly state goals and expectations from the program
2. Essay #2 In a couple of paragraphs, write your Upon acceptance thoughts about what is Mathematics, and why study it. Course Reflections: Reflections on learning, Are After Number Theory. your views of mathematics changing? Are you learning After Geometry. (If these about yourself personally as a learner; e.g. how to learn? courses are not on your schedule, choose two others.) 4. Capstone Project: Submit Project from MTH 438. After MTH 438 5. Project Compendium: MTH 450A After MTH 450A 6. Professional Experience: Written comments on Immediately after conference(s) you attended, including any Math Club or activity other professional experiences. (What was the event? What was learned? What was your role?) 7. Program Assessment Questionnaire. Complete the End of Program questionnaire. 8. Resume: A resume
Degree Requirements

To receive a Bachelor of Science degree with a Major in Mathematics, students must complete at least 180 quarter units as articulated below, 45 of which must be completed in residence at National University and 76.5 of which must be completed at the upper-division level. In the absence of transfer credit, students may need to take additional general electives to satisfy total units for the degree. Refer to the section on undergraduate admission requirements for specific information regarding admission and matriculation.

Preparation for the Major
(8-9 courses; 36-37.5 quarter units)

MTH 210 Introduction to Probability and Statistics. (Prerequisite: Placement Evaluation)
MTH 215 College Algebra and Trigonometry (Prerequisite: Placement Evaluation)
or
MTH 216A College Algebra and Trigonometry I (Prerequisite: Placement Evaluation)
and
MTH 216B College Algebra and Trigonometry II (Prerequisite: Placement Evaluation)
CST 242 Introduction to Programming Concepts and Methods
SCI 102 Survey of Physical Sciences
MTH 220 Calculus I (Prerequisite: MTH 215 or Placement Evaluation)
or
CST 208B Calculus for Computer Science (Prerequisite: MTH 215)
MTH 221 Calculus II (Prerequisite: MTH 220)
MTH 222 Calculus III (Prerequisite: MTH 221)
MTH 223 Calculus IV (Prerequisite: MTH 222)

Upper-Division Requirements for the Major
(12 courses; 54 quarter units)

MTH 311 Topics from Geometry (Prerequisites: MTH 215 or Placement Evaluation)
MTH 317 Mathematical Modeling I (Prerequisites: MTH 210 and MTH 215 or MTH 210 and MTH 216A/B)
MTH 325 Discrete Mathematics or CST 206B (Prerequisite: MTH 215 or MTH 216A/B or Placement Evaluation)
MTH 435 Linear Algebra (Prerequisites: MTH 220 and MTH 325)
MTH 433 Differential Equations (Prerequisites MTH 233:
MTH 411 Number Theory (Prerequisites: MTH 215 or MTH 216A/B or MTH 209A/B)
MTH 416 Algebraic Structures (Prerequisite: MTH 325)
MTH 417 Foundation of Geometry (Prerequisites: MTH 216B and MTH 325)
MTH 418 Statistical Analysis (Prerequisites: MTH 210 and MTH 220)
MTH 432 Advanced Calculus (Prerequisite: MTH 223)
MTH 412 History of Mathematics (Prerequisites: MTH 215 or MTH 216A/B or MTH 209A/B)
MTH 438 Applied Mathematical Modeling (Capstone Course) (Prerequisites: MTH 325 and MTH 435)

The capstone course MTH 438, Applied Mathematical Modeling, culminates a core part of BS Program in Mathematics and should be taken at the end of this part of the program. Mathematical modeling in a broad sense provides an approximate description of real world problems expressed in terms of mathematical notions and symbolism. Essentially, any real situation in the physical and biological world, no matter natural or involving human intervention and technology is subject to analysis by modeling, if it can be described in terms of mathematical equations. The course acquaints students with the principles of mathematical reasoning in an attempt to study some phenomenon or situation in the real world.

Upper-Division Concentration Requirements
(4 courses; 18 quarter units)

▲ Concentration in Mathematics and Applications
(172)

Students must successfully complete the following courses for a Concentration in Mathematics and Applications. It is recommended that students take these classes at or near the end of their program after completing the upper division major requirements.

MTH 440 Numerical Analysis (Prerequisite: MTH 220)
MTH 441 Abstract Algebra with Applications (Prerequisite: MTH 416)
MTH 442 Functions of Complex Variables and its Applications (Prerequisite: MTH 223)
MTH 450 A Mathematics Project Course I (Prerequisites: All core requirements for mathematics major)

▲ Concentration in Single-Subject Teaching
(173)

Students must successfully complete the following courses for a Concentration in Single-Subject Teaching. It is recommended that students take these classes at or near the end of their program after completing the upper division major requirements.

MTH 410 Computer Technology in the Mathematics Classroom (Prerequisite: MTH 215 or MTH 216A/B or MTH 209A/B)
MTH 460 Problem Solving Strategy (Prerequisites: MTH 416 and MTH 417)
MTH 461 Methods of Teaching of Mathematics (Prerequisites: MTH 307,MTH 325,MTH 412,MTH 460)
MTH 450 A Mathematics Project Course I (Prerequisites: All core requirements for mathematics major)

▲ Major in Organizational Behavior
(110)
Faculty Advisor: Monica Carbajal • (310) 258-6715 • mcarbaja@nu.edu

The behavior of individuals and groups in an organization directly affects the success of the organization. Knowledge of human behavior, psychology and business is critical in helping people lead productive lives and contribute to the achievement of organizational goals and objectives. The Bachelor of Science with a Major in Organizational Behavior provides a solid foundation for applying knowledge to the workplace and increasing the effectiveness of both individuals and work teams. The primary program outcomes and competencies are:
Students can select from the following course prefixes to meet

course requirements:

- HB 440 Organizational Development
- PSY 401 Psychology for Managers
- HB 500 Cross-Cultural Dynamics of Human Behavior
- MGT 422 Team Building, Interpersonal Dynamics and Empowerment
- or
- HB 400 Group Structure and Dynamics
- HRM 438 Performance Management and Motivation
- HRM 437 Human Resources Development
- MGT 400 Ethics in Law, Business and Management
- or
- HB 401 Conflict Resolution
- or
- HB 420 Human Communication
- HB 441 Analysis of Research
- HB 480 Senior Project in Organizational Behavior (Two-month, 4.5 unit course)

Upper-Division Electives

(7 courses; 31.5 quarter units)

Students can select from the following course prefixes to meet
elective requirements: HB, PSY, SOC, CJ, HC, HRM, MGT and COM.

Degree Requirements

To receive a Bachelor of Science degree with a major in
Organizational Behavior, students must complete at least 180 quarter
units as articulated below, 76.5 of which must be completed at the
upper-division level and 45 of which must be completed in residence
at National University.

Requirements for the Major

(9 courses; 40.5 quarter units)

HB 440 Organizational Development
(Prerequisites: ENG 100/101 and PSY 100)
PSY 401 Psychology for Managers
HB 500 Cross-Cultural Dynamics of Human Behavior
(Prerequisites: ENG 100/101 and PSY 100)
MGT 422 Team Building, Interpersonal Dynamics and Empowerment
or
HB 400 Group Structure and Dynamics
(Prerequisites: ENG 100/101 and PSY 100)
HRM 438 Performance Management and Motivation
or
HRM 437 Human Resources Development
MGT 400 Ethics in Law, Business and Management
HB 401 Conflict Resolution
(Prerequisites: ENG 100/101 and PSY 100)
or
HB 420 Human Communication
(Prerequisites: ENG 100/101 and PSY 100)
HB 441 Analysis of Research
(Prerequisites: ENG 100/101 and PSY 100)
HB 480 Senior Project in Organizational Behavior (Two-month, 4.5 unit course)
(Prerequisite: HB 441)

Upper-Division Electives

(7 courses; 31.5 quarter units)

Students can select from the following course prefixes to meet
elective requirements: HB, PSY, SOC, CJ, HC, HRM, MGT and COM.

BACHELOR OF SCIENCE (B.S.N.) IN NURSING

(650)
Faculty Advisor: Nancy Saks • (858) 642-8344 • nsaks2@nu.edu

The Bachelor of Science in Nursing (BSN) program prepares
registered nurses to assume greater responsibility in today’s complex
health care environment. Degree candidates develop critical thinking,
communication and therapeutic nursing skills within the framework of
transcultural nursing. Graduates are able to manage the nursing
care of culturally diverse clients in a variety of settings.

The Bachelor of Science in Nursing program is accredited by the
Commission on Collegiate Nursing Education (CCNE) through June
2011.

Program Description

The BSN program at National University prepares its graduates to be
able to:

- practice professional nursing using theory and knowledge as a
  basis for practice
- demonstrate competency by meeting standards of care in
  providing nursing care to a diverse set of clients in a
  multicultural community
- demonstrate competency and leadership in organizing care for a
  case load of clients
- analyze and synthesize current findings from nursing research
  and research in related fields
- evaluate current findings from relevant research for utilization in
  practice
- develop a critical stance on professional issues related to nursing
  practice, education and knowledge development by analyzing
  the historical and contemporary environments in nursing
- use computer technologies to augment productivity and to gain
  access to multiple informational resources services

Admission Requirements

To be eligible for admission to the BSN program at National
University, candidates must satisfy all of the following criteria:

- hold a current, active license to practice as a registered nurse in
  the state/country where clinical experiences will be completed
- have achieved a grade point average of 2.75 or the equivalent in
  the basic nursing program
- be a graduate of an NLN accredited associate degree in nursing
  program or meet equivalency requirements for National
  University (see below)
- show proof of registration in a professional liability program
  that meets University standards
- document current health standards as required by clinical
  agencies

Equivalency Requirements

Individuals who have not earned the associate degree in nursing can
meet equivalency requirements by completing the general education
requirements, the preparation for the major and Anatomy and
Physiology (9 quarter units). Students can use Anatomy and
Physiology to meet the natural sciences general education
requirements, or they can use prior course work from other
accredited institutions. The basic nursing education program must
have included course work in those areas required by the BRN.

Independent Duty Corpsmen (IDCs) who have successfully
challenged the NCLEX must meet the equivalency requirements
described above and successfully complete the IDC-RN transition courses (NSG 300 and NSG 301).

Admissions Procedure

Applicants are required to:

- remit a $200 service fee payable in two phases ($100 at time of admission and $100 at time of graduation) in addition to other University fees
- submit a statement of goals
- schedule and complete a personal interview with the program director or designee

General Education Program Requirements

Faculty Advisor: Alice Scharper • (530) 226-4003 • ascharpe@nu.edu

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

**AREA A: ENGLISH COMMUNICATION**
(minimum 15 quarter units)

**AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**
(minimum 4.5 quarter units)

**AREA C: INFORMATION LITERACY**
(minimum 4.5 quarter units)

**AREA D: ARTS AND HUMANITIES**
(minimum 13.5 quarter units)

**AREA E: SOCIAL AND BEHAVIORAL SCIENCES**
(minimum 13.5 quarter units)

**AREA F: PHYSICAL AND BIOLOGICAL SCIENCES**
(minimum 6 quarter units required [Note: one science lab is required])

**AREA G: MODERN LANGUAGE**
(minimum 9 quarter units)

(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement.)

**AREA A-G: GENERAL EDUCATION**
(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

Requirements for the Major

To receive a Bachelor of Science degree in Nursing (BSN), students must complete at least 180 quarter units as articulated below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. The following courses are specific degree requirements. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

Preparation for the Major

(6 courses; 27 quarter units)

- MTH 210 Introduction to Probability and Statistics*
- NSG 322 Introduction to Biomedical Statistics*
- PSY 100 Introduction to Psychology*
- SOC 100 Principles of Sociology*
- SOC 260 Cultural Anthropology*
- (Prerequisite: ENG100/101)

National University also includes an additional 9 units:

- NSG 300 Making the Transition to the Role of the Professional Nurse
- (for IDC-RN candidates only)
- NSG 301 Practicing the Role of the Professional Nurse
- (for IDC-RN candidates only)

These courses must be completed prior to taking any of the 400-level nursing courses.

* Students can also use these courses to fulfill general education requirements.

Required Courses

(14 courses; 63 quarter units)

Note: Students must take NSG 310, NSG 311, NSG 400, NSG 401 and NSG 402 before all other 400-level courses in the nursing major.

The nursing major includes the following courses:

- NSG 310 Professional Nursing Values
- NSG 311 Health Assessment
- NSG 400 Theory-Based Nursing: Introduction to Transcultural Nursing
- NSG 401 Model-Based Practice: Exploring Conceptual Frameworks
- NSG 402 Knowledge-Based Practice: Linking Scholarship to Professional Practice
- NSG 410 Nursing in the Community: Population Focused Practice*
- (Prerequisites: NSG 400, 401, 402 and 411)
- NSG 411 Nursing in the Community: Frameworks for Practice*
- (Prerequisites: NSG 400, 401, 402 and 412)
- NSG 412 Nursing in the Community: Health Care Delivery*
- (Prerequisites: NSG 400, 401 and 402)
- NSG 420 Introduction to Quantitative Research
- (Prerequisite: MTH 210 or NSG 322)
- NSG 421 Introduction to Qualitative Research
- (Prerequisite: MTH 210 or NSG 322)
- NSG 429 Health Economics
NSG 430  Case Management and Patient Care Management*  
(Prerequisites: NSG 400, 401 and 402)  
NSG 431  Health Service Systems Management*  
(Prerequisites: NSG 400, 401, 402 and 430)  
NSG 440  Issues in Professional Nursing  
(Capstone Course, to be taken at the end of the nursing sequence)  
(Prerequisites: NSG400,NSG401, and NSG402)  
* This course requires a clinical practicum of 32 hours.

Upper-Division Electives

Students can choose electives from courses with the following prefixes: PSY, SOC, HB and HC. Students must get approval from the department chair to take electives with other course prefixes.

School of Arts and Sciences

Minors

▲ Minor in Addictive Disorders  
(156)

This program is designed for students who plan to work in agencies that treat single or multiple addictions. It is also an excellent undergraduate program for students planning to pursue a Master of Arts in Counseling Psychology. Students with a Minor in Addictive Disorders are waived from CD 440 in the Behavioral Science Major.

Curriculum Requirements  
(6 courses; 27 quarter units)

PSY 460  Introduction to Addictive Disorders
PSY 461  Group Counseling with Addictive Disorders
*PSY 462  Etiology and Treatment of Chemical Dependency  
Prerequisite: PSY 460
PSY 463  Etiology and Treatment of Eating Disorders  
Prerequisite: PSY 460
PSY 464  Etiology and Treatment of Sexual Addiction  
Prerequisite: PSY 460
PSY 465  Counseling the Addictive Family System  
Prerequisite: PSY 460

* A student entering the program with a CADAC certificate can take an elective rather than this class.

▲ Minor in Multimedia Arts  
(176)

Curriculum Requirements  
(6 courses; 27 quarter units)

MM 330  Communication Tools
MM 331  Principles of Graphic Design  
(Prerequisites: ENG 100/101 and COM 100)
MM 332  Electronic Design and Layout  
(Prerequisites: ENG 100/101 and COM 100)
Please choose any three of the following:

MM 335  Desktop Publishing  
(Prerequisite: MM 332)
MM 340  Principles of Web Design  
(Prerequisite: ENG 100/101 and COM100)
MM 440  Multimedia Design for the Web  
(Prerequisite: MM 340)
MM 350  Web Presentations

▲ Minor in Mathematics  
(153)

Curriculum Requirements  
(6 courses; 27 quarter units)

To achieve a minor in Mathematics, students should select six courses in mathematics beyond MTH 221.

They can complete this minor to fulfill requirements for a Bachelor of Arts with a Major in Interdisciplinary Studies.

▲ Minor in Psychological Research  
(352)

This minor offers a comprehensive introduction to the area of research in psychology (May not be offered at all campuses.).

Prerequisites for the Minor  
(4 course, 15 quarter units)

ENG 100  Effective College English I
ENG 101  Effective College English II
PSY 100  Introduction to Psychology
ILR 260  Information Literacy and Report Writing

Curriculum Requirements  
(6 courses; 27 quarter units)

PSY 426  History of Psychology  
(Prerequisites: ENG 100/101 and PSY 100)
PSY 432  Social Psychology  
(Prerequisites: ENG 100/101 and PSY 100)
PSY 433  Cognitive Psychology  
(Prerequisites: ENG 100/101 and PSY 100)
PSY 435  Analysis of Data in Psychological Research  
(Prerequisite: MTH 210)
PSY 434  Psychological Research  
(Prerequisite: PSY 435)
PSY 436  Computer Applications in Psychology  
(Prerequisites: ILR 260 and PSY 435)

Graduate Degrees

MASTER OF ARTS (M.A.) IN COUNSELING PSYCHOLOGY  
(710-500)
Faculty Advisor: Jan Parker • (858) 642-8348 • jparkera@nu.edu

The Master of Arts in Counseling Psychology emphasizes marriage and family therapy and is designed for students who are committed to the practice of individual, couples, family, adolescent and child psychotherapy. This degree meets the academic requirements necessary to sit for the Marriage and Family Therapist (MFT) License mandated by the Board of Behavioral Science. It also prepares
To receive the Master of Arts in Counseling Psychology, students must meet the University application process. Application Requirements

Students interested in enrolling in this program should contact the appropriate academic center for further information regarding the application process.

To be considered for admission, applicants must meet the University graduate admission requirements listed in the general information for graduate degrees as well as the MAC program criteria. All applicants are evaluated for the psychotherapy profession, regardless of career goals. Students must submit an application packet, pass a personal interview and attend the program orientation before they may begin classes.

Students should consult the regional faculty to determine at what point in the sequence they may enter the program. Entrance points may differ in each region.

Degree Requirements

To receive the Master of Arts in Counseling Psychology, students must complete at least 78 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and if the units were not used in earning another advanced degree. Students should refer to the section on graduate admission requirements for specific information regarding application and matriculation. In addition:

- Students must complete all course work with a grade of “B” or better. Students who receive a grade of “C+” or lower in two (2) or more courses must repeat all such courses before being allowed to continue in the program.
- Students must complete a minimum of 20 hours of individual, marital, family, or group psychotherapy before taking PSY 631A and another 20 hours before graduation for a total of 40 hours.
- Students must obtain a total of 200 hours of counseling experience at a designated practicum site with an approved practicum site supervisor during PSY 631B. One-hundred-fifty of the 200 hours must involve face-to-face psychotherapy with clients.
- Independent studies are not allowed in this program.
- Students may not take more than one course per month.

Students seeking licensure must register with the Board of Behavioral Science Examiners (BBS) after graduation and fulfill all BBS licensing requirements.

Students are also urged to join the California Association of Marriage and Family Therapy and the American Association of Marriage and Family Therapists. Students must obtain malpractice insurance through C.A.M.F.T. or another professional organization.

Students must complete all course work within seven years. Any courses taken more than five (5) years ago must be repeated.

Program Prerequisite

(1 course; 4.5 quarter units)

PSY 429 Introduction to Personality Theory

Candidates who have not previously completed these courses or their equivalent may be required to do so.

Program Core Requirements

(18 courses; 78 quarter units)

These courses are scheduled on a limited basis. Students are encouraged to consult the regional faculty for the course sequence requirement, which may differ in each region. Enrollment in these courses is limited to MA Counseling Psychology students unless the course is specifically listed in another degree.

- PSY 635 Development Contexts in Psychotherapy: Childhood and Adolescence
- PSY 629A Development Contexts in Psychotherapy: Adulthood and Aging
- PSY 619 Research: Paradigms and Critiques (3 quarter units)
- PSY 623 Perspectives on Psychopathology
- PSY 618 Principles of Psychotherapy I: Assessment and Interventions
- PSY 632A Couples/Family Therapy A
- PSY 632B Couples/Family Therapy B
- PSY 636 Principles of Psychotherapy II: Child and Adolescent
- PSY 628 Principles of Psychotherapy III: Group Approaches
- PSY 627 Legal and Ethical Issues in Marriage and Family Therapy
- PSY 631A Principles of Psychotherapy IV: Integration and Application (Prerequisite: Department approval)
- PSY 631B Practicum for MFT Trainees* (Prerequisites: PSY 631A and Department approval)
- PSY 637 Principles of Psychotherapy V: Cultural Competencies
- PSY 624 Assessment Techniques for Marriage and Family Therapists
- PSY 642 Relational Violence
- CD 640 Addictions: Contexts and Treatments
- PSY 626 Human Sexuality in Psychotherapy
- PSY 652 Psychopharmacology (3 quarter units)

*This seminar meets once a week for two hours during six consecutive months in addition to the onsite practicum requirements. This seminar may meet in the late afternoon.

MASTER OF ARTS (M.A.) IN ENGLISH

(710-504)

Faculty Advisor: Janet Baker • (858) 642-8472 • jbakerr@nu.edu

The Master of Arts in English provides a balanced and comprehensive program of graduate study in literature and writing. The program is ideal for teachers who desire a content M.A. beyond the credential. It is also excellent preparation for doctoral studies in English, teaching in the two-year college, or other careers requiring a high degree of literacy.

The curriculum offers a balanced coverage of major approaches to literature, including theoretical, historical, comparative, thematic, multicultural and genre studies. It provides students with the tools...
and skills to produce literary scholarship of professional quality and

to participate in the ongoing scholarly discussions of issues in the

field of literary study. It also provides unique opportunities to

explore the roots of a literary genre through both critical analysis and

creation of the form itself.

**Degree Requirements**

To receive the Master of Arts in English, students must complete at

least 45 quarter units. A total of 4.5 quarter units of graduate credit

may be granted for equivalent graduate work completed at another

institution, as it applies to this degree and provided the units were

not used in earning another advanced degree.

Students should refer to the General Catalog section on graduate

admission requirements for specific information regarding admission

and matriculation.

**Writing Across the Curriculum Assistantships and Internships**

A number of Writing Center Assistantships are available for degree

candidates in the M.A. in English program who want to have hands-
on experience in tutoring students at National University's onsite

and on-line writing centers. Contact Shareen Grogan, Director of

Writing Centers, at sgrogan@nu.edu.

The University’s Writing Across the Curriculum Program offers

additional opportunities for students to participate in meaningful

projects that will enhance their career development. These projects

include editing and producing the student literary journal, The GNU

and working on the WHACK, the Writing Across the Curriculum

Newsletter. Contact Karen Offitzer, Director of Writing Across the

Curriculum, at koffitzer@nu.edu, for additional information.

In addition, various departmental faculty have opportunities for

students to assist them with teaching, scholarly projects, or other

activities and students can receive valuable experience and

mentoring from working with them. Contact individual faculty

members for information.

**Program Core Requirements**

(8 courses; 36 quarter units)

**Electives**

(2 courses; 9 quarter units)

**M A S T E R O F A R T S (M.A.) I N H U M A N B E H A V I O R**

(710-301)

Faculty Advisor: Charles Tatum • (858) 642-8476 • ctatum@nu.edu

The Master of Arts in Human Behavior is designed for people

desiring greater knowledge of the behavioral sciences. The degree

exposes the student to a wide array of behavioral topics covering

personal, social and organizational issues. The program is intended

for students who have specific ambitions in the fields of supervision,

management and administration, but should also appeal to students

undergoing life transitions, seeking personal or career growth, or

requiring preparation for doctoral-level training. The primary

program outcomes and competencies are:

• Synthesize and apply communication theory and practice in

  real-world situations.

• Develop a personal and professional code of ethics based on

  knowledge and understanding of moral and ethical principles

  and values.

• Assimilate adult development and human sexuality theories and

  principles into personal and interpersonal growth.

• Analyze and apply behavioral and organizational change

  processes to personal, social and organizational settings.

• Integrate theories of leadership into applied areas of

  supervision, management and administration.

• Demonstrate practical competence in the use of behavioral

  theory, research and assessment.

• Produce written materials (papers, essays, projects, journals,

  etc.) that analyze, integrate and critique critical theories,

  issues and research in human behavior.

• Demonstrate oral fluency (class debates, group discussions,

  individual presentations, etc.) in articulation of the theory

  and practice of behavioral science.

• Demonstrate multi-cultural awareness and appreciation of

  human diversity.

**Degree Requirements**

To receive the Master of Arts in Human Behavior, students must

complete at least 54 quarter units of graduate work. A total of 13.5

quarter units of graduate credit may be granted for equivalent

graduate work completed at another institution, as it applies to this

degree and provided the units were not used in earning another

advanced degree. Students should refer to the section on graduate

admission requirements for specific information regarding

application and matriculation.

**Program Core Requirements**

(10 courses; 45 quarter units)

**Electives**

(2 courses; 9 quarter units)
HB 601A Organizational Behavior
HB 642 Theories of Behavior Change
HB 601D Creative Leadership
HB 650 Foundations of Behavioral Research
HB 660 Organizational Assessment
  (Prerequisite: HB 650)
HB 680 Integrative Project in Human Behavior
  (Capstone course)
  (Prerequisite: HB 650)

Electives
(2 courses; 9 quarter units)

Students can select graduate elective courses from the following course prefixes: CD, HRM, HB, MKT, MGT and SOC (CD 601 and SOC 604 are highly recommended). In addition, some education and psychology courses are acceptable with the approval of the Chair of the Department of Psychology. (Note: Due to enrollment restrictions, special permission by the Chair of the Department of Psychology is required to take CD 640, or any courses designated PSY 600 or above).

■ MASTER OF FINE ARTS (M.F.A.) IN FILM ART STUDIES
(715-502)
Faculty Advisor: Paul Majkut • (858) 642-8465 • pmajkut@nu.edu

The M.F.A. in Film Art Studies is designed for those who have graduated with a degree in the humanities, fine arts, education or, in addition to having an undergraduate degree that is not in one of these disciplines, worked in the area of film arts.

Film Art Studies provides students with advanced theoretical, historical and aesthetic appreciation of cinema. In addition, practical cinematic skills are included to enhance students’ understanding and implementation of these film concepts. The M.F.A. in Film Art Studies prepares students with background and skills necessary to work in various areas of the film industry as well as those planning careers in teaching.

Program Curriculum Requirements

To receive the M.F.A., students must complete at least 63 quarter units, 49.5 of which must be taken in residence at National University. No more than six courses may be taken on-line. This restriction does not include MFA 690A (Thesis Research) and MFA 690B (Thesis Writing), which may be taken either on-line or in class. Refer to the section on graduate admission requirements for specific information regarding application and matriculation.

Students are required to complete a language competency examination specified by the School of Arts and Sciences or two courses of a language approved by the department. Though required for the degree, these language courses do not satisfy the 63-quarter unit requirement.

Advancement to Candidacy

A student is advanced to candidacy for the Master of Fine Arts degree after the successful completion (no lower than a “B” in any course) of three required courses. At that time, the student selects or is assigned a thesis mentor.

Comprehensive Examination

When all required courses with the exception of MFA 690A (Thesis Research) and MFA 690B (Thesis Writing) have been successfully completed with no grade lower than “B” in any course, the student is scheduled to take the Comprehensive Examination of the Master of Fine Arts in Film Art Studies. The Comprehensive Examination is both oral and written, covering the content of all required courses. The oral Comprehensive Examination is one hour, minimum; the written Comprehensive Examination is four hours, maximum. The oral and written Comprehension Examinations are of equal academic weight. Comprehensive Examinations are pass or fail. Students are allowed to take both or either the oral or written sections of the Comprehensive Examination no more than three times each.

Foundation Courses

The following courses, although not required, are highly recommended to students with little academic background in film studies:

ART 100 Introduction to Art History
  (Prerequisites: ENG 100/101)
ART 315 Film as Art
  (Prerequisites: ENG 100/101)
ENG 365 Creative Writing
  (Prerequisites: ENG 100/101)
SOC 336 Film and Society
  (Prerequisites: ENG 100/101)
GS 330 Film in an International Context
  (Prerequisite: ENG 240)

Language Requirement

Students in the M.F.A. in Film Art Studies must meet a foreign language requirement. This requirement may be fulfilled by testing or by satisfactorily passing two courses in one of the following languages: Chinese, French, German, Italian, Japanese, Russian, or Spanish. Other languages are acceptable upon approval of the director of the program.

Required Courses for the Master of Fine Arts in Film Art Studies
(14 courses; 63 quarter units)

MFA 660 Film Art Studies
MFA 665 Film Theory
MFA 666 Film History: The Silents
MFA 667 Film History: American Film
MFA 670 Film Genre Studies
MFA 671 World Film
MFA 680 Screenwriting
MFA 681 Storyboarding
MFA 682 Animation
MFA 683 Project Management and Direction
MFA 685 Great Directors: American
MFA 686 Great Directors: International
MFA 690A Thesis Research
MFA 690B Thesis Writing

■ MASTER OF SCIENCE (M.S.) IN INSTRUCTIONAL TECHNOLOGY
(720-502)
Faculty Advisor: Michael McAnear • (858) 642-8466 • mmcanear@nu.edu

The Master of Science in Instructional Technology is a multidisciplinary program designed to prepare students for rapidly growing employment opportunities that involve the training and instruction of information and telecommunication technologies. Graduates with master’s degrees in Instructional Technology are in high demand because they possess a combination of skills and
knowledge that can be applied to instructional problems in a wide range of settings. These settings may include training departments of large businesses, software development companies, military training programs, health-care education programs, publishing houses, multimedia development companies, social service agencies and governmental agencies.

**Degree Requirements**  
(10 courses; 45 quarter units)

To obtain a Master of Science in Instructional Technology, students must complete 45 quarter units of graduate work. Where appropriate, students can transfer a maximum of 4.5 quarter units of graduate work completed at another regionally accredited institution to meet stated requirements in the program. Students should refer to the section on graduate admission requirements for specific information regarding application and matriculation.

Students are expected to possess or to have access to a computer outside of National University for projects both on and off campus. Given the nature of instructional technology, the off-campus computer should be at least a Pentium II with 128 MB RAM.

**Program Core Requirements**  
(8 courses; 36 quarter units)

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>IT 600</td>
<td>Instructional Design</td>
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<td>IT 601</td>
<td>Advanced Instructional Design</td>
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<td>IT 610</td>
<td>Multimedia in Instruction</td>
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<td>IT 615</td>
<td>Distance Learning</td>
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<td>IT 620</td>
<td>Web-based Instruction</td>
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<td>IT 625</td>
<td>Simulations and Virtual Reality</td>
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<td>IT 634</td>
<td>Seminar in Performance Technology</td>
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<tr>
<td>IT 641</td>
<td>Evaluating and Improving Instructional Programs</td>
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</tbody>
</table>

**Integration Seminars and Projects**  
(2 courses; 9 quarter units)

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>IT 645</td>
<td>Current Issues in Instructional Technology</td>
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<tr>
<td>IT 650</td>
<td>Instructional Technology Project</td>
</tr>
</tbody>
</table>

**MASTER OF SCIENCE IN INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY**  
(720-610)

Faculty Advisors: Richard C. Sorenson 858-642-8397 rsorenso@nu.edu and Delbert M. Nebeker 858-642-8398 dnebeker@nu.edu

The Master of Science in Industrial-Organizational Psychology program (MSIO) provides accredited graduate level training and education in industrial-organizational psychology. It prepares professionals to manage programs dealing with work analysis and design, fairness and utility of employee selection and placement, employee productivity, employee satisfaction and retention, and organizational design and development. The program design follows the Guidelines for Education and Training of the Division 14 of the American Psychological Association: the Society of Industrial-Organizational Psychology. It is practice-oriented, research-based, and advocates the highest levels of personal and professional integrity. The MSIO is particularly appropriate for those working in Human Resources Management, Employee Development and General Management who would benefit from graduate level education in the people/organizational side of management. This program is appropriate also for those nearing completion of their military career.

Student goals for the Master of Science in I-O Psychology are:

1. Develop master’s level student competencies in the areas specified in the Society for Industrial and Organizational Psychology (SIOP) guidelines for Master’s level education and training in Industrial and Organizational Psychology.
2. Develop students’ ability to critically analyze and evaluate literature in general psychology and I-O psychology.
3. Develop students’ ability to apply the competencies learned in the program to the benefit of organizations and their employees.
4. Prepare students for further study of I-O Psychology at the doctoral level.

**Application Requirements**

To be considered for admission, applicants must meet the University graduate admission requirements listed in the general information for graduate degrees. Recent graduates of undergraduate programs as well as bachelor degree holders who have substantial employment experience in organizations are welcome to apply. Qualified applicants will be interviewed by faculty to determine suitability of background, motivation, and career objectives. Students interested in this program should contact the appropriate academic center or one of the faculty advisors for further information regarding the application process.

**Degree Requirements**  
(13 courses; 58.5 quarter units)

To receive the Master of Science in I-O Psychology, students must complete at least 58.5-quarter units; a total of 13.5 units may be granted for equivalent work completed at another institution. In addition the student must pass two examinations for completion of the MS in I-O Psychology. The first is the Prelim Exam and deals with the history of psychology and the scientific fields of psychology. This examination must be passed before the student takes the seventh course in the program. The second examination is the Competency Exam and demonstrates mastery of the program in I-O Psychology. This exam may be taken any time after the eighth course in the program and must be passed before enrolling in the IO 695: Field Placement in I-O Psychology. These examinations may be repeated until passed. A fee of $100 is charged for each administration of these exams. Preparation for the first exam will be done external to the graduate program— within the student’s undergraduate program and/or by a program of reading sources suggested by the faculty. Preparation for the second exam will occur within the graduate program and by mastering the required series of courses and a program of reading sources suggested by the faculty.

Independent studies are not allowed in this program.

**Program Core Requirements**  
(12 courses; 54 quarter units)

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>IO 610</td>
<td>Industrial and Work Psychology</td>
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<tr>
<td>IO 620</td>
<td>Organizational Psychology</td>
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<tr>
<td>IO 630</td>
<td>Research and Statistics I</td>
</tr>
<tr>
<td>IO 631</td>
<td>Research and Statistics II</td>
</tr>
<tr>
<td>(Prerequisite: IO 630)</td>
<td></td>
</tr>
<tr>
<td>IO 635</td>
<td>Psychological Measurement</td>
</tr>
<tr>
<td>(Prerequisite: IO 631)</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>IO 640</td>
<td>Work Motivation</td>
</tr>
<tr>
<td>IO 645</td>
<td>Training in Organizations</td>
</tr>
<tr>
<td>IO 650</td>
<td>Organizational Development</td>
</tr>
<tr>
<td>IO 655</td>
<td>Attitude Theory and Measurement</td>
</tr>
<tr>
<td>IO 665</td>
<td>Performance Appraisal and Feedback</td>
</tr>
<tr>
<td>HB 660</td>
<td>Assessment in Organizations</td>
</tr>
<tr>
<td>IO 695</td>
<td>Field Placement in I/O Psychology</td>
</tr>
</tbody>
</table>

**Elective Requirement**

(1 course; 4.5 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IO 690</td>
<td>Advanced Seminar in I/O Psychology</td>
</tr>
<tr>
<td>HB 601B</td>
<td>Communication for Managers</td>
</tr>
<tr>
<td>HB 601D</td>
<td>Creative Leadership</td>
</tr>
<tr>
<td>HB 641</td>
<td>Stages of Adult Development</td>
</tr>
<tr>
<td>HB 642</td>
<td>Theories of Behavior Change</td>
</tr>
<tr>
<td>HRM 632</td>
<td>Communication and Change</td>
</tr>
<tr>
<td>HRM 633A</td>
<td>Creative Leadership</td>
</tr>
<tr>
<td>HRM 640</td>
<td>Personal Growth Group</td>
</tr>
<tr>
<td>HRM 650</td>
<td>Foundations of Behavioral Research</td>
</tr>
<tr>
<td>PA 620</td>
<td>Foundations of Public Administration</td>
</tr>
<tr>
<td>PA 626</td>
<td>Public Personnel Policy</td>
</tr>
</tbody>
</table>

**Field Placement Requirement**

The field placement experience is an integral part of the graduate program in I-O Psychology. It will occur toward the end of the program after the student has mastered the basic principles, and has acquired the knowledge, skills, and abilities related to the practice of I-O Psychology. The field placement experience may occur in the same organization where the student is employed if the duties involved are different from the duties performed in the past and are representative of the content of I-O Psychology. If such an arrangement is not possible, students may select a placement from those developed by the faculty. The field placement requirement is for 160 hours of experience approved in advance.

**Alternative Scheduling**

This program will be taught with the first 5 courses in the traditional one month format and the remaining courses taught in a two-month per course format. Under the two-month format the classes will meet once a week for 8 weeks in the current time configuration (5:30 to 10:00pm). The courses in the two month format will be staggered and beginning with the second two-month class they will overlap. This means that during the second month of each two-month class the student will also be in the first month of the next course. In this way the student will be enrolled in two courses at the same time. The two month format is necessary for some courses because they will require projects involving research or experience in operating organizations which will be difficult if not impossible to accomplish in the single month format.

**Post Baccalaureate Program**
School of Business and Information Management

Dean, Shahram Azordegan
Ed.D. Leadership, Mississippi State University

104 Degrees Offered
105 Faculty
107 Undergraduate Degree Programs
117 Graduate Degree Programs
129 Certificate Programs
Degree Programs Offered

Undergraduate Degrees

Bachelor of Arts
with Majors in:
Legal Studies
Management

Bachelor of Business Administration
with Concentrations in:
Accountancy – CPA/Non CPA
Finance
Hospitality and Casino Management
Human Resources Management
Marketing
Sports Management

Bachelor of Science
with Majors in:
Accountancy
Criminal Justice Administration
Financial Management
Information Systems
with Concentrations in:
Database Administrations
Electronic Business
Telecommunication
Information Technology

SCHOOL OF BUSINESS AND INFORMATION MANAGEMENT
MINORS
Accountancy
Business Administration
Business Studies
Criminal Justice Administration
Information Technology
Legal Studies
Total Quality Management

Transition Programs
BA MGT/MA MGT Transition Program
BBA/MBA Transition Program
BSCJ/MPS Transition Program
BSCJ/MPA Transition Programs
BBA/MSEB Transition Program
BSITM/MSEB Transition Program
BSIS/MSEB Transition Program
BSIS/MSIS Transition Program
BSITM/MSIS Transition Program
BBA/MSTM Transition Program
BSITM/MSTM Transition Program
BSIS/MSTM Transition Program

Graduate Degrees

Executive Master of Business Administration
Areas of Specialization:
Electronic Business
International Business Relations
Marketing

Master of Arts
Fields of Study:
Human Resources Management
Management

Master of Business Administration
Areas of Specialization:
Accountancy – CPA/Non CPA
Electronic Business
Financial Management
Health Care Administration
Human Resources Management
International Business
Marketing
Technology Management

Master of Forensic Sciences
Area of Specialization:
Criminalistics
Investigation

Master of Health Care Administration

Master of Public Administration
Area of Specialization:
Public Finance

Master of Science
Fields of Study:
Electronic Business
Finance
Information Systems
Organizational Leadership
Taxation
Technology Management

Certificate Programs
Accountancy
Criminal Justice Administration
Electronic Business
Finance
Financial Accounting
Healthcare Administration
Hospitality and Casino Management
Human Resources Management
Information Technology
International Business
Marketing
Sports Management
Total Quality Management

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**Mission Statement**

The mission of the School of Business and Information Management is to give adult learners the skills and knowledge they need to advance in their careers as managers in global, technological organizations. The school’s primary emphasis is teaching. Its curriculum, faculty selection, methods of instruction, and research reflect this emphasis. Additionally, the school is guided by the following principles:

- Instructional formats are convenient and efficient, without compromising academic quality.
- Teaching is the first priority of the faculty.
- Teaching methods are centered on the learner rather than the faculty.
- The school provides service to local community organizations by applying the theoretical concepts taught in the classroom.
- The school continually strives to advance the currency and relevancy of its academic programs.

The maturity of National University’s student body and the professional experience of the faculty, in addition to their academic preparation, provide a real-world atmosphere to augment the theoretical basis of the courses.

**Undergraduate Degree Programs**

■ **BACHELOR OF ARTS (B.A.)**

(610) General Education Program Requirements

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

**AREA A: ENGLISH COMMUNICATION**

(minimum 15 quarter units)

**AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**

(minimum 4.5 quarter units)

**AREA C: INFORMATION LITERACY**

(minimum 4.5 quarter units)

**AREA D: ARTS AND HUMANITIES**

(minimum 13.5 quarter units)

**AREA E: SOCIAL AND BEHAVIORAL SCIENCES**

(minimum 13.5 quarter units)

**AREA F: PHYSICAL AND BIOLOGICAL SCIENCES**

(minimum 6 quarter units required [Note: one science lab is required])

**AREA G: MODERN LANGUAGE**

(minimum 9 quarter units)

(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement. Students enrolled in a degree program under the School of Business and Information Management can elect to take general education electives to fulfill this requirement.)

**AREA A-G: GENERAL EDUCATION**

(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

◆ **Major in Legal Studies**

(610 - 407) Faculty Advisor: Thomas Green • (858) 642-8439 • tgreen@nu.edu

The Major in Legal Studies gives students an opportunity to develop the verbal and analytical skills needed to succeed as a law student or attorney. Students prepare to undertake the civic responsibility of practicing law through exposure to the law’s ethical and social implications. This major also allows students interested in a career in business or government to gain an understanding of the complex legal issues they will face in their professions.

**Degree Requirements**

To receive a Bachelor of Arts with a Major in Legal Studies, students must complete at least 180 quarter units as described below. 76.5 quarter units must be completed at the upper-division level and 45 must be completed in residence at National University. (In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.)

The 70.5 quarter unit general education program is the same for most degrees. Students completing this major are also strongly encouraged to take the history, law and political science category under area “D.”

**Preparation for the Major**

(1 course; 4.5 quarter units)

IS 301 Management Information Systems

**Requirements for the Major**

(9 courses; 40.5 quarter units)

LAW 304 Legal Aspects of Business I
LAW 305 Legal Aspects of Business II
(Prerequisite: Law 304)
LAW 310 Litigation
LAW 400 Current Legal Issues
LAW 402 The Art of Negotiation
MGT 400 Ethics in Law, Business and Management
LAW 410 Introduction to Law and Legal Analysis

Either:
CJ 451 Court Systems and the Judicial Process
or
LAW 311 Legal Research and Writing

Capstone – must be taken as the last of these upper-division requirements:
LAW 420 Advocacy (Capstone course)
Upper-Division Electives
(7 courses; 31.5 quarter units)

HRM 409B Survey in Human Resources Management and Organization Development
HRM 436 Introduction to Legal, Regulatory, and Labor Relations
MGT 420 Introduction to TQM in the Context of Management and Leadership
MGT 430 Survey of Global Business
COM 380 Democracy in the Information Age
COM 460 Media Ethics and the Law
PS 320 Politics of Social Movements
SOC 445 Contemporary Social Problems

Any 400-level Criminal Justice (CJ) course excluding CJ 451
Any 400-level English (ENG) course
Any 400-level Management (MGT) course
Any 400-level Sociology (SOC) course
ACC 410A Financial Accounting
ACC 410B Financial Accounting II
ACC 410C Financial Accounting III

In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

◆ Major in Management
(610-413)
Faculty Advisor: Helen Eckmann • (858) 642-8422 • heckmann@nu.edu

The Bachelor of Arts with a Major in Management provides students a business-related degree with an emphasis on managing organizations and personnel in a multicultural and global setting. To achieve maximum flexibility, the Major in Management program minimizes prerequisites, enabling students to take the required courses in any sequence.

BACHELOR OF ARTS IN MANAGEMENT / MASTER OF ARTS IN MANAGEMENT (BA MGT / MA MGT) TRANSITION PROGRAM

Students who are currently enrolled in the Bachelor Arts in Management program, have at least a GPA of 3.0 and are within six courses of graduation, may register for the Bachelor of Arts in Management / Master of Arts in Management (BA MGT / MA MGT) Transition Program by taking two MA Management classes as electives during the BA Management Program. Students choose any two of the following: MGT 601, EB 620, or HRM 640. To be eligible, students must apply for and begin the MA Management Program within six months of completing their BA Management Program. The number of courses required to earn an MA/MGT degree for Transition Program students is reduced from 12 to 10 courses.

Students must complete graduate-level course work taken as part of the BA MGT degree with a grade of B or better. This course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate-level courses will be calculated as part of the student’s undergraduate Grade Point Average.

Degree Requirements
To receive a Bachelor of Arts with a Major in Management, students must complete at least 180 quarter units as described below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. (In absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.) Refer to the section of undergraduate admission requirements for specific information regarding admission and matriculation.

Preparation for the Major
(6 courses, 27 quarter units)

IS 301 Management Information Systems
MTH 210 Introduction to Probability and Statistics *
ECO 203 Principles of Microeconomics *
ECO 204 Principles of Macroeconomics
ACC 201 Financial Accounting Fundamentals
ACC 202 Managerial Accounting Fundamentals

*May be used to satisfy general education requirements

Upper-Division Requirements
(9 courses; 40.5 quarter units)

LAW 304 Legal Aspects of Business I
MGT 400 Ethics in Law, Business and Management
MGT 409C Principles of Management and Organization
MGT 430 Survey of Global Business
HRM 409B Survey in Human Resources Management and Organization Development
MKT 402A Marketing Fundamentals
HB 420 Human Communications
or HB 440 Organizational Development
or OD 420 Introduction to Organizational Behavior
FIN 310 Business Finance

Upper-Division Electives
(7 courses; 31.5 quarter units)

Students are encouraged to take any minors or electives in the following prefix areas: ACC, ITM, IS, FIN, HC, HRM, LAW, MKT and MS. The following recommended courses are pre-approved minors or electives, including those with prefixes other than those listed above:

CJ 441 Organized and White Collar Crime
HIS 410 California Experience
HRM 432 Recruiting, Selection, Promotion, and Retention
LAW 305 Legal Aspects of Business II
LAW 400 Current Legal Issues
LAW 402 The Art of Negotiation
MKT 420 Introduction to TQM in the Context of Management Leadership
MS 407 Management Science
PHL 375 Environmental Ethics

FacultyAdvisor: Helen Eckmann • (858) 642-8422 • heckmann@nu.edu

The Bachelor of Arts with a Major in Management provides students a business-related degree with an emphasis on managing organizations and personnel in a multicultural and global setting. To achieve maximum flexibility, the Major in Management program minimizes prerequisites, enabling students to take the required courses in any sequence.

BACHELOR OF ARTS IN MANAGEMENT / MASTER OF ARTS IN MANAGEMENT (BA MGT / MA MGT) TRANSITION PROGRAM

Students who are currently enrolled in the Bachelor Arts in Management program, have at least a GPA of 3.0 and are within six courses of graduation, may register for the Bachelor of Arts in Management / Master of Arts in Management (BA MGT / MA MGT) Transition Program by taking two MA Management classes as electives during the BA Management Program. Students choose any two of the following: MGT 601, EB 620, or HRM 640. To be eligible, students must apply for and begin the MA Management Program within six months of completing their BA Management Program. The number of courses required to earn an MA/MGT degree for Transition Program students is reduced from 12 to 10 courses.

Students must complete graduate-level course work taken as part of the BA MGT degree with a grade of B or better. This course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate-level courses will be calculated as part of the student’s undergraduate Grade Point Average.

Degree Requirements
To receive a Bachelor of Arts with a Major in Management, students must complete at least 180 quarter units as described below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. (In absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.) Refer to the section of undergraduate admission requirements for specific information regarding admission and matriculation.

Preparation for the Major
(6 courses, 27 quarter units)

IS 301 Management Information Systems
MTH 210 Introduction to Probability and Statistics *
ECO 203 Principles of Microeconomics *
ECO 204 Principles of Macroeconomics
ACC 201 Financial Accounting Fundamentals
ACC 202 Managerial Accounting Fundamentals

*May be used to satisfy general education requirements

Upper-Division Requirements
(9 courses; 40.5 quarter units)

LAW 304 Legal Aspects of Business I
MGT 400 Ethics in Law, Business and Management
MGT 409C Principles of Management and Organization
MGT 430 Survey of Global Business
HRM 409B Survey in Human Resources Management and Organization Development
MKT 402A Marketing Fundamentals
HB 420 Human Communications
or HB 440 Organizational Development
or OD 420 Introduction to Organizational Behavior
FIN 310 Business Finance

Upper-Division Electives
(7 courses; 31.5 quarter units)

Students are encouraged to take any minors or electives in the following prefix areas: ACC, ITM, IS, FIN, HC, HRM, LAW, MKT and MS. The following recommended courses are pre-approved minors or electives, including those with prefixes other than those listed above:

CJ 441 Organized and White Collar Crime
HIS 410 California Experience
HRM 432 Recruiting, Selection, Promotion, and Retention
LAW 305 Legal Aspects of Business II
LAW 400 Current Legal Issues
LAW 402 The Art of Negotiation
MKT 420 Introduction to TQM in the Context of Management Leadership
MS 407 Management Science
PHL 375 Environmental Ethics

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To receive a Bachelor of Business Administration, students must complete at least 180 quarter units as described below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. (In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.) Refer to the section of undergraduate admission requirements for specific information regarding admission and matriculation.

**General Education Program Requirements**

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched coursework work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

**AREA A: ENGLISH COMMUNICATION**

(6 courses, 22.5 quarter units)

**AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**

(4 courses, 15 quarter units)

**AREA C: INFORMATION LITERACY**

(3 courses, 13.5 quarter units)

**AREA D: ARTS AND HUMANITIES**

(5 courses, 15 quarter units)

**AREA E: SOCIAL AND BEHAVIORAL SCIENCES**

(5 courses, 15 quarter units)

**AREA F: PHYSICAL AND BIOLOGICAL SCIENCES**

(5 courses, 15 quarter units)

**AREA G: MODERN LANGUAGE**

(2 courses, 6 quarter units)

**AREA A-G: GENERAL EDUCATION**

(7 courses, 31.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

**Preparation for the Degree**

(7 courses, 31.5 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 301</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>MS 205</td>
<td>Introduction to Quantitative Methods for Business*</td>
</tr>
<tr>
<td>ECO 203</td>
<td>Principles of Microeconomics*</td>
</tr>
<tr>
<td>ECO 204</td>
<td>Principles of Macroeconomics*</td>
</tr>
<tr>
<td>ACC 201</td>
<td>Managerial Accounting Fundamentals</td>
</tr>
<tr>
<td>ACC 202</td>
<td>Legal Aspects of Business I</td>
</tr>
</tbody>
</table>

* May be used to satisfy general education requirements
Upper-Division BBA Requirements
(7 courses; 31.5 quarter units)

MGT 409C Principles of Management and Organization
FIN 310 Business Finance
(Prerequisites: ACC 201 and ACC 202)
MS 407 Management Science
(Prerequisite: MS 205)
MKT 402A Marketing Fundamentals
MGT 430 Survey of Global Business
(Prerequisites: ECO 203 and ECO 204)
MGT 451 Production and Operations Management
BUS 480 Integrated Business Policy (Capstone Course)
(Prerequisites: All BBA preparation and core courses)

Grading of BUS 480 is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

Upper-Division Electives
(8 courses; 36 quarter units)

The elective courses listed below provide students with a well-rounded business education and are directly applicable to today’s business world. Students are strongly encouraged to select electives from the following list of recommended courses. Substitutions must be from among courses with the following prefixes: ACC, IS, ITM, FIN, HC, HRM, MGT, MKT, or HB. Students may choose to take a concentration of six upper-division elective courses.

Recommended Courses

IS 446 Data Modeling in Information Technology Environment
FIN 446 International Financial Management
(Prerequisites: FIN 310 and FIN 440)
FIN 440 Financial Institutions
(Prerequisite: FIN 310)
HRM 409B Survey in Human Resources Management and Organization Development
HRM 432 Recruiting, Selection, Promotion, and Retention
(Prerequisite: HRM 409B)
HRM 439 Legal, Regulatory, and Labor Relations Concerns in HRM
(Prerequisite: HRM 409B)
LAW 305 Legal Aspects of Business II
(Prerequisite: LAW304)
MGT 420 Introduction to TQM in the Context of Management and Leadership
MGT 442 Strategic Business Management
MGT 490 Guided Study
MKT 430 Introduction to Global Marketing
(Prerequisite: MKT402A)
MKT 434 Introduction to Market Research
(Prerequisite: MKT402A)
MKT 443 Introduction to Advertising
(Prerequisite: MKT 402A)

In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

BACHELOR OF BUSINESS ADMINISTRATION CONCENTRATIONS

▲ Concentration in Accountancy
(472)
Faculty Advisor: Donald Schwartz • (858) 642-8420 • dschwart@nu.edu

This concentration is designed for those majoring in Business Administration with its broad base of business-related disciplines, but who also wish to gain the intermediate-level accounting knowledge and skills appropriate for careers in the accounting and finance departments of a business, non-profit or government entity.

Students are encouraged to seek a nationally recognized accounting designation such as the CMA (Certified Management Accountant) or CFM (Certified in Financial Management). Those who are considering a CPA designation (Certified Public Accountant) are best served by enrolling in the B.S. in Accountancy degree program and selecting the CPA track electives.

Students are strongly advised to contact the above-named faculty advisor for guidance and recommendations as to academic preparation that will best meet their career objectives.

Preparation for the Concentration:
(1 course; 4.5 quarter units)
ACC 201 Financial Accounting Fundamentals

Students must successfully complete the following courses for a Concentration in Accountancy and must have successfully completed ACC 201 before enrolling in any of these courses:

Requirements for the Concentration
(6 courses, 27 quarter units)
ACC 410A Financial Accounting I
ACC 410B Financial Accounting II
(Prerequisite: ACC 410A)
Plus any four of the following courses:
ACC 410C Financial Accounting III
(Prerequisite: ACC 410A)
ACC 431 Advanced Accounting
ACC 432A Taxation – Individual
ACC 432B Taxation II
ACC 433A Managerial Accounting I
(Prerequisite: ACC 202)
ACC 433B Managerial Accounting II
(Prerequisite: ACC 433A)
ACC 434 Government and Nonprofit Accounting
ACC 435A Auditing I
(Prerequisite: ACC 410A)
ACC 435B Auditing II
(Prerequisite: ACC 435A)

▲ Concentration in Finance
(467)
Faculty Advisor: Chang G. Park • (858) 642-8402 • cpark@nu.edu

Career opportunities in finance are in three interrelated areas: financial institutions, including banks, insurance companies; credit unions and similar organizations; investments, including the sale of securities or security analysis; and financial management in all types of commercial and not-for-profit organizations. This concentration prepares students for future managerial responsibilities in these areas with an emphasis on the financial management of organizations.

Students must successfully complete the following courses for a Concentration in Finance. Students must complete at least four of the courses in residence at National University. It is recommended that students take these courses at or near the end of their program after completing the upper-division BBA core courses.

Prerequisite for the Concentration:
(1 course; 4.5 quarter units)
FIN 310 Business Finance
Requirements for the Concentration
(6 courses; 27 quarter units)

FIN 440 Financial Institutions
FIN 442 Investments
FIN 443 Working Capital Management
FIN 446 International Financial Management
FIN 447 Financial Planning
FIN 444 Risk Management and Insurance

▲ Concentration in Hospitality and Casino Management
(479)

Faculty Advisor: Nancy Bush • (858) 642-8421 • nbush@nu.edu

This concentration is designed for those majoring in Business Administration who seek entry or advancement in the management of hospitality and casino industries. There is a wide and growing range of opportunities for graduates including management, marketing and community relations in hotels, restaurants, tourism facilities and visitor’s bureaus.

Requirements for the Concentration
(7 courses, 31.5 quarter units)

SM 432 Principles of Leisure Services Management
HM 400 Hospitality and Casino Accounting
HM 430 Hospitality and Casino Staffing
HM 450 Native American Tribal Community Development
HM 440 Cultural Diversity and Hospitality Management
HM 420 Hospitality and Casino Marketing
(HRM 409B)
HM 410 Hospitality and Gaming Law

▲ Concentration in Human Resources Management
(468)

Faculty Advisor: Cynthia Larson-Daugherty • (858) 642-8447 • clarson@nu.edu

This concentration provides education, knowledge and skills that apply to every level of an organization. This degree program is excellent preparation for students attracted to a career in the increasingly important field of Human Resources Management.

Requirements for the Concentration
(6 courses; 27 quarter units)

SM 430 Introduction to Sports Management
HRM 409B Survey in Human Resources Management and Organization Development
HRM 432 Recruiting, Selection, Promotion, and Retention
(HRM 409B)
HRM 433 Pay and Benefit Administration, and HR Technology
(HRM 409B)
HRM 439 Legal, Regulatory, and Labor Relation Concerns in HRM
(HRM 409B)
OD 410 Organizational Development, Career Systems, and Training and Development
(HRM 409B)

OD 420 Introduction to Organizational Behavior
(HRM 409B)

▲ Concentration in Marketing
(469)

Faculty Advisor: Nancy Bush • (858) 642-8421 • nbush@nu.edu

This concentration is organized around a managerial framework that gives students an understanding of the concepts of marketing as well as the application of these concepts in making decisions and managing marketing activities. There is a wide range of opportunities in marketing, including marketing management, marketing research, purchasing manager/buyer, market analysis, product/branch manager, retailing, sales promotion and international marketing.

Students must successfully complete the following courses for a Concentration in Marketing. Students must complete at least four of the courses in residence at National University. It is recommended that students take these courses at or near the end of their program after completing the upper-division BBA core courses.

Prerequisite for the Concentration:
(1 course; 4.5 quarter units)

MKT 402A Marketing Fundamentals

Requirements for the Concentration
(6 courses; 27 quarter units)

MKT 420 Principles of Consumer Behavior
(Prerequisite: MKT 402A)
MKT 430 Introduction to Global Marketing
(Prerequisite: MKT 402A)
MKT 434 Introduction to Marketing Research
(Prerequisite: MKT 402A)

Plus any three of the following courses:

MKT 440A Personal Selling
(Prerequisite: MKT 402A)
MKT 441 Physical Distribution Management
(Prerequisite: MKT 402A)
MKT 442A Public Relations
(Prerequisite: MKT 402A)
MKT 443 Introduction to Advertising
(Prerequisite: MKT 402A)
HM 420 Hospitality and Casino Marketing
(Prerequisite: MKT 402A)
SM 436 Sports Marketing and Promotion
(Prerequisites: MKT 402A and SM 430)

▲ Concentration in Sports Management
(259)

Faculty Advisor: Nancy Bush • (858) 642-8421 • nbush@nu.edu

This concentration is designed for those students majoring in Business Administration who may seek entry into management and marketing in the specialized fields of the sports and fitness industries. There is a wide range of opportunities in sports management including professional sports, university and college athletic programs, high school athletics, fitness centers, golf and tennis clubs, sports instruction centers, leisure and recreational facilities and allied businesses.

Requirements for the Concentration
(6 courses, 27 quarter units)

SM 430 Introduction to Sports Management
School of Business and Information Management

**BACHELOR OF SCIENCE (B.S.)**

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus (+) indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following eight areas:

**AREA A: ENGLISH COMMUNICATION**
(minimum 15 quarter units)

**AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**
(minimum 4.5 quarter units)

**AREA C: INFORMATION LITERACY**
(minimum 4.5 quarter units)

**AREA D: ARTS AND HUMANITIES**
(minimum 13.5 quarter units)

**AREA E: SOCIAL AND BEHAVIORAL SCIENCES**
(minimum 13.5 quarter units)

**AREA F: PHYSICAL AND BIOLOGICAL SCIENCES**
(minimum 6 quarter units required [Note: one science lab is required])

**AREA G: MODERN LANGUAGE**
(minimum 9 quarter units)

(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement. Students enrolled in a degree program under the School of Business and Information Management can elect to take general education electives to fulfill this requirement.)

**AREA A-G: GENERAL EDUCATION**
(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

◆ **Major in Accountancy**
(620-411)
Faculty Advisor: Donald Schwartz • (858) 642-8420 • dschwartz@nu.edu

This major is designed to prepare students for entry into the accounting profession in addition to a series of required core business and accounting courses, students can elect courses in one of two professional accounting tracks:

**CPA Certified Public Accountant Track**

**CMA/CFM Certified Management Accountant Track**

Students who elect the CPA track will be prepared to sit for the CPA Exam upon earning this baccalaureate degree. Students should then consider enrolling in the MBA program in order to meet the 150 semester units of higher education required by California and most other states. (See also BS/MBA Transition Program, below)

**BS/MBA TRANSITION PROGRAM**

The BS in Accountancy / MBA Transition Program allows currently enrolled BS in Accountancy students with a cumulative grade point average of at least 3.0 who are within completing their last six courses to register for two MBA courses as electives for their baccalaureate degree. Students can select any two graduate-level accounting or tax courses for which required course prerequisites (if any) have been met, or may select from the following MBA core courses: EB 620, MKT 602 and MGT 601. The number of courses required to earn an MBA degree for Transition Program students is reduced from 13 to 11 courses. To be eligible for the Transition Program, students must apply for the MBA and begin their program of study within six months after completing their final baccalaureate degree course. Students must complete the 11-course MBA program within four years with no break exceeding 12 months.

Students must complete graduate-level coursework taken as part of the BS Accountancy degree with a grade of B or better. This coursework will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate-level courses will be calculated as part of the students’ undergraduate Grade Point Average.

**Degree Requirements**

To receive a Bachelor of Science with a Major in Accountancy, students must complete at least 180 quarter units as described below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree. Refer to the section of undergraduate admission requirements for specific information regarding admission and matriculation.

**Preparation for the Major**
(5 courses; 22.5 quarter units)

MS 205 Introduction to Quantitative Methods for Business
ECO 203 Principles of Microeconomics
ECO 204 Principles of Macroeconomics
ACC 201 Financial Accounting Fundamentals*
ACC 202 Managerial Accounting Fundamentals
(Prerequisite: ACC 201)

* Eligible for Credit-By-Exam waiver: contact faculty advisor

**Requirements for the Major**
(13 courses; 58.5 quarter units)

To receive a Bachelor of Science with a Major in Accountancy, students must successfully complete the courses listed below. Students can request waivers of any of the courses if they have completed an upper-division undergraduate or graduate course of

112
similar content at a regionally-accredited college or university with a grade of "C" or better. Students must take at least six of the courses in the major in residence at National University.

Core Business Courses
(5 courses; 22.5 quarter units)

IS 301 Management Information Systems
LAW 304 Legal Aspects of Business I
MGT 409C Principles of Management and Organization
FIN 310 Business Finance
  (Prerequisite: ACC 201)
and
MGT 430 Survey of Global Business
  (Prerequisites: ECO 203 and ECO 204)
or
MKT 402A Marketing Fundamentals
or
MS 407 Management Science
  (Prerequisite: MS 205)
(Recommended for students considering the CMA or CFM designation)

Prerequisite for All Accounting Courses

Students must have completed ACC 201 or its equivalent with a minimum grade of "C" within two years of taking any of the following accounting courses, unless an equivalent grade is received on the Accounting Aptitude Exam.

Accounting Courses
(8 courses; 36 quarter units)

To be adequately prepared for the accounting courses listed below, students should take ACC 410A first since it starts with a review of the fundamentals upon which much of the subsequent material is based. Students who wish to start at a later point in the program are advised to test their retention of accounting fundamentals by working the end-of-chapter exercises in the first five chapters of an Intermediate Accounting text. Students also have the option of taking BUS 501A as a refresher.

ACC 410A Intermediate Accounting I
  (Prerequisite: ACC 201)
ACC 410B Intermediate Accounting II
  (Prerequisite: ACC 410A)
ACC 432B Taxation Business
ACC 300 Applied Technology for Accounting*
ACC 433A Managerial Accounting I
  (Prerequisite: ACC 202)
ACC 433B Managerial Accounting II
  (Prerequisite: ACC 433A)
ACC 434 Government and Nonprofit Accounting
ACC 435A Auditing I
  (Prerequisite: ACC 410A)

Eligible for Credit-By-Exam waiver: contact faculty advisor

Upper-Division Electives
(3 courses, 13.5 quarter units)

Recommended Electives for CPA Track

ACC 435B Auditing II
  (Prerequisite: ACC 435A)
ACC 410C Intermediate Accounting III
  (Prerequisite: ACC 410B)
ACC 431 Advanced Accounting
ACC 432A Taxation – Individual

Recommended Electives for CMA/CFM (Corporate Accounting) Track

It is recommended that students considering the CMA (Certified Management Accountant) designation and/or the CFM (Certified Financial Manager) designation select courses in Information Systems and/or Finance.

◆ Major in Criminal Justice Administration
(620-405)
Faculty Advisor: Chandrika Kelso • (858) 642-8433 • ckelso@nu.edu

The Major in Criminal Justice Administration is designed to meet the educational and professional needs of individuals in law enforcement who are interested in professional development or career advancement. It also prepares individuals for challenging and dynamic careers in the justice system at the local, state and federal levels. Individuals completing the program are prepared for entry- and advanced-level positions, teaching or training assignments, private security employment, research, or employment as consultants within the field.

The core program consists of upper-division courses that include basic forensic science, research methods, juvenile justice, corrections, criminology, leadership and management, civil and criminal investigations, court systems, criminal law and a senior research project supervised by full-time, associate and select core adjunct faculty. Additionally, students select elective courses from psychology, sociology, addictive disorders, behavioral science, legal studies, information technology and human resources management to provide a broader perspective in human behavior.

BS IN CRIMINAL JUSTICE ADMINISTRATION/ MASTER OF FORENSIC SCIENCE TRANSITION PROGRAM
and
BS IN CRIMINAL JUSTICE ADMINISTRATION/ MASTER OF PUBLIC ADMINISTRATION TRANSITION PROGRAMS

The Criminal Justice Administration/Forensic Science Transition Program and Criminal Justice Administration/Public Administration Transition Program allow students who are enrolled in the BS in Criminal Justice Administration with a cumulative grade point average of at least 3.0 and who are within completing their last six courses to register for two courses in the Master of Forensic Sciences program or the Master of Public Administration program as electives for the bachelor’s degree. The two graduate courses are restricted to those that do not require a prerequisite and must be completed with a grade of B or better for the Forensics Sciences program. Students pursuing the Public administration program can take any two courses with the exception of PA 631. The number of courses required to earn an MFS or MFA degree for Transition Program students is reduced from 12 to 10 courses. Graduate-level course work taken as part of the Criminal Justice Administration program cannot be applied to the Master of Forensic Sciences program or the Master of Public Administration program, nor will it transfer as graduate level credit to any other university because it becomes part of the undergraduate degree program.

Requirements for the Major

To receive a Bachelor of Science in Criminal Justice Administration, students must complete at least 180 quarter units as articulated below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. The following courses are specific Degree Requirements. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.
Refer to the section on undergraduate admission requirements for specific information regarding application and matriculation.

Preparation for the Major
(1 course; 4.5 quarter units)

PSY 100 Introduction to Psychology*

or

SOC 100 Principles of Sociology*
(Prerequisite: ENG 100/101)

* May be used to satisfy a general education requirement.

Required Courses
(10 courses; 45 quarter units)

CJ 427 Introduction to Criminal Justice
CJ 449 Research Methods
CJ 431 Criminology
CJ 437 The Juvenile Offender
CJ 446 Criminal Justice Management and Leadership
CJ 460 Principles of Investigation
CJ 451 Court Systems and the Judicial Process
CJ 452 Criminal Law
CJ 440 Corrections
CJ 470 Supervised Criminal Justice Senior Project*
(Prerequisite: CJ 449)

* A two-month course that meets once per week for 4.5 quarter units.
Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work), or “U” (Unsatisfactory, “D” or below). Accelerated study is not permitted with CJ 470.

Students who do not complete the Senior Project within the two-month period are eligible, at the discretion of the instructor, to receive a grade of “K” with a maximum of a one-time six month extension. Students who do not complete the project at the end of the extension period will need to retake CJ 470. No grade of “I” (Incomplete) can be given for this course.

Upper-Division Electives
(6 courses; 27 quarter units)

Recommended Courses

In combination with the Major in Criminal Justice Administration, students can use their upper-division elective requirements to work toward any one of four recommended minor degrees: Minor in Addictive Disorders, Minor in Behavioral Science, Minor in Legal Studies, or Minor in Information Technology. See appropriate pages in the catalog for minor Degree Requirements.

Students can also complete their upper-division elective requirements by taking selected courses from any of the four recommended minor degrees, or any of the courses listed below:

CD 440 Drugs, Values and Society
CJ 434 Survey of Forensic Sciences
CJ 443 Current Issues in Law Enforcement
CJ 441 Organized and White Collar Crime
CJ 448 Violence in Society
CJ 456 Criminal Evidence
CJ 457 Minorities, Crime and Social Justice
CJ 464 Constitutional Law for Criminal Justice
CJ 465 Practicum in Criminal Justice
(1.5-9 quarter units)
CJ 467 International and Domestic Terrorism
CJ 490 Guided Study
(1.5-9 quarter units)

recommended minor degrees, or any of the courses listed below:

CJ 490 Guided Study
CJ 465 Practicum in Criminal Justice
CJ 464 Constitutional Law for Criminal Justice
CJ 457 Minorities, Crime and Social Justice
CJ 448 Violence in Society
CJ 443 Current Issues in Law Enforcement
CD 440 Drugs, Values and Society

recommended minor degrees, or any of the courses listed below:

CJ 490 Guided Study
CJ 465 Practicum in Criminal Justice
CJ 464 Constitutional Law for Criminal Justice
CJ 457 Minorities, Crime and Social Justice
CJ 448 Violence in Society
CJ 443 Current Issues in Law Enforcement
CD 440 Drugs, Values and Society

Recommended Courses

In combination with the Major in Criminal Justice Administration, students can use their upper-division elective requirements to work toward any one of four recommended minor degrees: Minor in Addictive Disorders, Minor in Behavioral Science, Minor in Legal Studies, or Minor in Information Technology. See appropriate pages in the catalog for minor Degree Requirements.

Students can also complete their upper-division elective requirements by taking selected courses from any of the four recommended minor degrees, or any of the courses listed below:

CD 440 Drugs, Values and Society
CJ 434 Survey of Forensic Sciences
CJ 443 Current Issues in Law Enforcement
CJ 441 Organized and White Collar Crime
CJ 448 Violence in Society
CJ 456 Criminal Evidence
CJ 457 Minorities, Crime and Social Justice
CJ 464 Constitutional Law for Criminal Justice
CJ 465 Practicum in Criminal Justice
(1.5-9 quarter units)
CJ 467 International and Domestic Terrorism
CJ 490 Guided Study
(1.5-9 quarter units)

General Elective Requirements

Students can use courses from any area to fulfill total unit requirements for the degree based on the results of matriculation.

Major in Financial Management
(620-409)
Faculty Advisor: Chang G. Park • (858) 642-8402 • cpark@nu.edu

The Major in Financial Management combines major elements of finance and accounting with the objective of preparing students for positions in the field of corporate financial management. The program differs from a traditional finance major by including accounting courses in cost accounting and taxation, two topics that are very useful to corporate financial managers. The program differs from an accounting major by including finance courses such as investments, working capital management, international finance and financial institutions, which enable students to understand advanced financial concepts. In lieu of courses in intermediate accounting, students take a financial statement analysis course that gives them the ability to analyze and interpret a firm’s financial statements as well as an understanding of how accounting values are derived.

With some minor exceptions, this program prepares students to take the exams for the Certified in Financial Management (CFM) professional designation administered by the Institute of Management Accounting. This relatively new designation signifies to employers that an individual has attained a high degree of technical competence in the field of financial management. In addition, the program also prepares students to take the exam for the Certified Cash Manager (CCM) professional designation. The CCM designation signifies a high degree of expertise in the field of cash and treasury management.

Requirements for the Degree

To receive a Bachelor of Science with a Major in Financial Management, students must complete at least 180 quarter units as articulated below, 76.5 of which must be completed at the upper-division level and 45 of which must be completed in residence at National University. The following are specific Degree Requirements.

Preparation for the Major
(6 courses; 27 quarter units)

IS 301 Management Information Systems
MS 205 Introduction to Quantitative Methods for Business *
ECO 203 Principles of Microeconomics *
ECO 204 Principles of Macroeconomics *
(Prerequisite: ECO 203)
ACC 201 Financial Accounting Fundamentals
ACC 202 Managerial Accounting Fundamentals
(Prerequisite: ACC 201)

* May be used to satisfy general education requirements.
School of Business and Information Management

Requirements for the Major
(16 courses; 72 quarter units)

Upper-Division Business Requirements
(6 courses; 27 quarter units)

- MS 407 Management Science (Prerequisite: MS 205)
- MGT 409C Principles of Management and Organization
- FIN 310 Business Finance (Prerequisites: ACC 201 and ACC 202)
- MKT 402A Marketing Fundamentals
- LAW 304 Legal Aspects of Business I
- ACC 432A Taxation-Individual

Finance and Accounting Courses in the Major
(10 courses; 45 quarter units)

- FIN 440 Financial Institutions (Prerequisite: FIN 310)
- FIN 442 Investments (Prerequisites: FIN 310 and FIN 440)
- FIN 443 Working Capital Management (Prerequisites: FIN 310 and FIN 440)
- FIN 444 Risk Management and Insurance (Prerequisites: FIN 310 and FIN 440)
- FIN 446 International Financial Management (Prerequisites: FIN 310 and FIN 440)
- FIN 448 Seminar in Finance (Prerequisites: FIN 310, FIN 440, FIN 442, FIN 443 and FIN 446)
- FIN 449 Analysis of Financial Statements (Prerequisite: FIN 310)
- ACC 433A Managerial Accounting I (Prerequisite: ACC 202)
- ACC 433B Managerial Accounting II (Prerequisite: ACC 433A)
- ACC 432B Taxation - Business (Prerequisite: ACC 432A)

◆ Major in Information Systems
(620-416)

Faculty Advisor: Gary Parks • (858) 642-8414 • gparks@nu.edu

The School of Business and Information Management has added an industry current IS program that will link business and technology. There is great demand in the corporate world for people who can integrate all elements of the enterprise into a comprehensive network of responsive, proactive information delivery systems. The BS in Information Systems (BSIS), requires coursework in: Telecommunications (TC), Electronic Commerce (EC) and Database Administration (DBA).

Requirements for the Degree

To receive a Bachelor of Science with a Major in Information Systems, students must complete at least 180 quarter units, 76.5 of which must be completed at the upper-division level and 45, including the senior project courses, must be taken in residence at National University.

Note: The BSIS program is offered in a 16 course template. It is highly recommended to meet with your faculty advisor for more information regarding this string of course work to ensure maximum success.

Preparation for the Major
(2 courses, 9 quarter units)

- CST 242 Introduction to Programming Concepts and Methods*
- MS 205 Introduction to Quantitative Methods for Business*

* May be used to satisfy a general education requirement.

Requirements for the Major
(8 courses; 36 quarter units)

- IS 301 Management Information Systems
- IS 443 Local Area Network Technologies
- IS 446 Data Modeling in an Information Technology Environment
- IS 425 Programming for an Information Technology Environment
- IS 302 Data Mining (Prerequisite: IS 446)
- MGT 409C Principles of Management and Organization
- IS 420A Information Systems and Technology Project I (Prerequisite: All preparation and core courses)
- IS 420B Information Systems and Technology Project II (Prerequisite: IS 420A)

Upper-Division Electives
(8 courses; 36 quarter units)

Select any four courses from any of the concentrations listed below; plus any four upper division courses from the Departments of Business and/or the Department of Management Science and Information Systems.

Concentrations
(4 courses; 18 quarter units)

In lieu of the Upper-Division Electives, students may complete one of the concentrations described below plus four upper division courses from the Departments of Business and/or the Department of Management Science and Information Systems.

▲ Concentration in Database Administration
(258)

- IS 414 Data Warehousing (Prerequisites: IS 302, IS 446)
- IS 415 PL/SQL – Visual Basic Database Object Development (Prerequisites: IS 302, IS 446, IS 414)
- IS 416 Database Administration (Prerequisites: IS 302, IS 446, IS 414)
- IS 418 Database Network Administration (Prerequisites: IS 302, IS 446, IS 414)

▲ Concentration in Electronic Business
(257)

- IS 406 Multimedia Applications on the Internet
- IS 407 Web Site Management (Prerequisite: IS 406)
- IS 408 Java Coding for Internet (Prerequisite: IS 406)
- IS 409 Internet/Intranet Application Development for E-Commerce (Prerequisites: IS 407 and IS 408)

▲ Concentration in Telecommunications
(256)

- IS 444 Wide Area Networking Concepts and Services (Prerequisite: IS 443)
The Bachelor of Science with a Major in Information Technology Program is designed to meet the increasing demand for technology expertise in consulting, marketing and sales support, customer services and support, information and library science and general management. This program is designed to provide students with understanding of basic Information Technology concepts and practical technology skills. Graduates are prepared for positions in the areas of (1) Information Desktop Management and Administration, (2) Database Management Systems (DBMS) Development, Administration and Support, (3) Network Management and Support.

### Degree Requirements

To receive a Bachelor of Science with a Major in Information Technology, students must complete at least 180 quarter units, 76.5 of which must be completed at the upper-division level and 45 of which must be taken in residence, including the research project classes (ITM 490 A/B). In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree. In addition, students must also select five upper division elective courses from SBIM.

### Preparation for the Major

Students should be computer literate and have a basic understanding of computer usage.

### Requirements for the Major

(11 courses; 49.5 quarter units)

- **ITM 310** Introduction to Information Technology
- **ITM 320** Information Technology Management
- **ITM 330** Desktop Applications and Information Processing
- **ITM 340** Information Technology Desktop Support  
  (Prerequisite: ITM 330)
- **ITM 410** Computer Network Technologies Overview
- **ITM 420** Network Management Principles and Practices
- **ITM 430** Network Administration (Local and Remote)  
  (Prerequisites: ITM 410 and ITM 420)
- **ITM 440** Database Systems Concepts and Data Modeling
- **ITM 450** Database Processing and Administration  
  (Prerequisite: ITM 440)
- **ITM 490A** Information Technology Project I (Hands On)
- **ITM 490B** Information Technology Project I (Hands On)  
  (Prerequisite: ITM 490A)

### Upper-Division Electives

(5 courses; 22.5 quarter units)

Students can choose any upper-division degree related electives from SBIM.

### Minor in Accountancy

(450)

### Requirements for the Minor

(6 courses; 27 quarter units)

Students can earn a Minor in Accountancy if they have successfully completed ACC 410A and at least five of the upper-division accounting courses required in the major. See “Major in Accountancy.” Prerequisites may be required depending on courses chosen.

### Minor in Business Administration

(463)

### Prerequisite for the Minor

(5 course, 22.5 quarter units)

- **ACC 201** Financial Accounting Fundamentals
- **ACC 202** Managerial Accounting Fundamentals  
  (Prerequisite: ACC 201)
- **ECO 203** Principles of Microeconomics
- **ECO 204** Principles of Macroeconomics  
  (Prerequisite: ECO 203)
- **MS 205** Introduction for Quantitative Methods for Business  
  (Prerequisite: Placement Evaluation)

### Requirements for the Minor

(6 courses; 27 quarter units)

- **FIN 310** Business Finance  
  (Prerequisite: ACC 201 and ACC 202)
- **MGT 409C** Principles of Management
- **MS 407** Management Science  
  (Prerequisite: MS 205)
- **HRM 409B** Survey in Human Resources Management and Organization Development
- **MKT 402A** Marketing Fundamentals
- **MGT 430** Survey of Global Business  
  (Prerequisites ECO 203 and ECO 204)

### Minor in Business Studies

(451)

### Prerequisite for the Minor

(4 course, 18 quarter units)

- **ACC 201** Financial Accounting Fundamentals
- **ACC 202** Managerial Accounting Fundamentals  
  (Prerequisite: ACC 201)
- **ECO 203** Principles of Microeconomics
- **MS 205** Introduction for Quantitative Methods for Business  
  (Prerequisite: Placement Evaluation)

### Requirements for the Minor

(6 courses; 27 quarter units)

This minor is offered by the School of Business and Information Management. Students can complete this minor in conjunction with the Bachelor of Arts with a Major in Interdisciplinary Studies.

- **ECO 204** Macroeconomics  
  (Prerequisite: ECO 203)
- **FIN 310** Business Finance  
  (Prerequisites: ACC 201 and ACC 202)
School of Business and Information Management

Graduate Degree Programs

**MASTER OF ARTS (M.A.) IN HUMAN RESOURCES MANAGEMENT**
(710-803)
Faculty Advisor: Cynthia Larson • (858) 642-8447 • clarson@nu.edu

The Master of Arts in Human Resources Management provides students with the skills and knowledge required in this fast-paced and increasingly challenging field. This program encompasses the many facets of this field while offering insight into the current issues facing human resources managers.

**Degree Requirements**
(12 courses; 54 quarter units)

To receive a Master of Arts in Human Resources Management, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree.

Refer to the section on graduate admission requirements for specific information regarding application and matriculation.

**Requirements**
(12 courses; 54 quarter units)

Students can take the following courses in any order, provided they have met any particular course prerequisites.

- **MGT 630** Legal Aspects of Human Resources Management
- **HRM 632** Compensation, Incentive and Benefit Programs
- **HRM 633A** Seminar in Union-Management Relations
- **HRM 636** Seminar in Training and Development
- **HRM 637** Procurement and Placement
- **HRM 638** Leadership and Organization Development
- **MGT 635** The Organization Consulting Process
- **HRM 650** Human Resources Management for Technology
- **MGT 600** Ethical Concerns in Business and Management
- **MGT 651** Managing Safety Issues and Regulations
- **FIN 600** Managerial Finance

**MASTER OF ARTS (M.A.) IN MANAGEMENT**
(710-804)
Faculty Advisor: Helen Eckmann • (858) 642-8422 • heckmann@nu.edu

The Master of Arts in Management gives students in professional and mid-management careers the opportunity to obtain decision-making skills through a sequence of core courses in basic management and business subjects. Open electives allow students to achieve individual program design and to focus their studies on their professional disciplines.

This program is designed primarily for students who have undergraduate degrees in fields other than business, desire a flexible program, and are seeking graduate work in management.

**Degree Requirements**
(12 courses; 54 quarter units)

To receive a Master of Arts in Management, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree.

A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree.
BACHELOR OF ARTS IN MANAGEMENT/MASTER OF ARTS IN MANAGEMENT TRANSITION PROGRAM

The Bachelor of Arts in Management/Master of Arts in Management (BAM/MAM) Transition Program allows currently enrolled BAM students with a cumulative grade point average of at least 3.0 who are within completing their last six courses to register for two BAM courses as electives for their BAM degree. Students can select any two of the following three courses: MGT 601, HRM 640 and EB 620. The number of courses required to earn an MAM degree for Transition Program students is reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MAM and begin their program of study within six months after completing their final BAM course. Students must complete the 12-course MAM program within four years with no break exceeding 12 months. Students must complete graduate-level course work taken as part of the BAM degree with a grade of B or better. The course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program.

Program Requirements

(9 courses; 40.5 quarter units)

Students can take the following courses in any order.

MGT 601  Leadership in a Global Environment
LED 602  Developing and Implementing Groups and Teams
EB 620  Principles of E-Business
HRM 640  Managing Human Resources in Multicultural Environments
HRM 638  Leadership and Organization Development
MGT 630  Global Business Environment
MGT 600  Ethical Concerns in Business and Management
MGT 635  The Organization Consulting Process
HRM 636  Seminar in Training and Development
(Prerequisites: All core courses)

Program Electives

(3 courses; 13.5 quarter units)

To complete their program, students can select electives from any graduate course with appropriate prefixes (ACC, IS, IT, ECO, FIN, HC, HRM, MKT, MGT and MS), if they have met all the necessary prerequisites.

MA in Management Project

As a culminating, comprehensive experience for the Master of Arts in Management program, students are required to complete a project in HRM 636, Seminar in Training and Development. This involves developing an organizational training program and incorporates concepts from the required courses.

MASTER OF SCIENCE (M.S.). IN ORGANIZATIONAL LEADERSHIP

(720-815)
Faculty Advisor: Helen Eckmann • (858) 642-8422 • heckmann@nu.edu

The mission of the MSOL program is to prepare diverse adult learners to become effective, change-oriented leaders in an international society. The program uses distinctive and challenging curriculum that integrates theory with practice, university with community, personal success with ethical service to others, and information technology with creativity, empathy, and democracy.

Degree Requirements

(12 courses; 54 quarter units)

To receive a Master of Science in Organizational Leadership, students must complete 10 courses (45 quarter units) of the MSOL core curriculum and 2 courses (9 quarter units) of the designated elective courses.

Program Requirements

(45 quarter units)

LED 601 Theories, Practices, and Ethics of Leadership
QMT 601 Quantitative Methods in Business
LED 602 Developing and Implementing Groups and Teams
LED 603 Organizational Leadership
LED 604 Change and Adaptation within Organizations
LED 605 Negotiation, Bargaining, and Conflict Resolution
LED 606 Information Management for Leaders
LED 607 Financial Management for Leaders
LED 608 Seminars in Leadership
(Prerequisite: completion of 6 of the preceding core courses)
LED 609 Capstone Project Course
(Prerequisite: completion of 6 of the preceding core courses)

Program Electives

(2 courses; 9 quarter units)

Each student must complete two courses from the Department of Business or the Department of Management Science and Information Systems to meet the electives requirement.

MASTER OF BUSINESS ADMINISTRATION (M.B.A.)

(730)
Faculty Advisor: Sydney Blake • (858) 642-8429 • sblake@nu.edu

The Master of Business Administration (MBA) provides adult learners with a comprehensive foundation for business decision-making and prepares them to lead effectively in a rapidly changing business environment. The MBA enables graduates to manage challenges including globalization, diversity, social and ethical responsibility and technology and to anticipate and adapt to the challenges of tomorrow. The degree encompasses the theoretical concepts and practical applications for business practitioners. Special emphasis is placed on the role of management in the formulation and administration of corporate policy and strategic plans.

Degree Requirements

(13 courses; 58.5 quarter units)

To receive an MBA, students must complete at least 58.5 quarter units of graduate credit. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree.

Referto the section on graduate admission requirements for specific information regarding application and matriculation. Though required for the degree, the foundation courses listed below cannot be used to satisfy the 58.5 quarter unit requirement.

MBA TRANSITION PROGRAM

National University students who complete two graduate courses as part of their undergraduate degree program and who satisfy the other MBA Transition Program requirements described in the catalog must complete at least 49.5 quarter units for their MBA degree. The two graduate courses may be selected from EB 620, MKT 602, and MGT 601.
Foundation for Success

To maximize student learning and performance, a series of non-credit, self-paced foundation courses are offered online-free of charge to registered MBA students. Faculty advisors will be available online and via phone to provide guidance and answer questions. While students may elect to complete the foundation courses at any time, all foundation courses for a particular core course must be completed before taking the course. Self-assessment tests are available for students to ascertain their level of competency.

Program Requirements

(9 courses; 40.5 quarter units)

- MGT 601 Leadership and Ethics
- EB 620 Principles of E-Business
- MKT 602 Marketing Management for Global Competitiveness
- QMT 601 Quantitative Methods in Business
- ECO 607 Economics for Managerial Decision-Making (Prerequisite: ECO 203)
- ACC 604 Managerial Accounting
- FIN 609A Seminar in Financial Management
- MGT 670* MBA Project (Prerequisites: QMT 601 and the completion of 27 quarter units of MBA core course work)
- BUS 501B Finance Fundamentals (Foundation for FIN 609A)
- BUS 500B Introduction to Quantitative Methods (Foundation for QMT 601)
- BUS 500A Intermediate Algebra (Foundation for QMT 601)
- BUS 500C Macroeconomics (Foundation for ECO 607)
- BUS 501A Accounting Fundamentals (Foundation for ACC 604)

MBA General Electives

(4 courses; 18 quarter units)

Students can select any four electives from graduate courses in the following areas: marketing, health care, public administration, information systems, leadership, finance, e-business and information technology. They can also take a combination of courses available as part of an M.B.A. area of specialization.

The MBA Project

The MBA Project is designed to be a comprehensive project. Therefore, students should schedule MGT 610C toward the end of their degree program. The minimum requirements are the completion of QMT 601 and at least 27 quarter units of core requirements in the MBA program.

To complete the project satisfactorily, students apply extensive effort in research and writing over a period of two months. Due to the time and effort required for this project, it is recommended that students dedicate themselves to the completion of this project without distraction.

MBA AREAS OF SPECIALIZATION

Requirements for Areas of Specialization

In lieu of general electives, student can choose an area of specialization. In order to qualify for graduation with an area of specialization, students must complete all courses specified in the desired area in addition to all of the MBA program requirements.

Students must take at least three-fourths of the courses in the area of specialization while in residence at National University.

Specialization in Accountancy

(850)

Faculty Advisor: Donald Schwartz • (858) 642-8420 • dschwartz@nu.edu

Designed for those whose undergraduate degree is not in accounting, the goals of this program are to provide students with the accounting knowledge and skills needed to pursue a career in the financial management of a commercial or nonprofit organization and to help prepare students for national certification examinations. Relevant professional designations include Certified Public Accountant (CPA), Certified Management Accounting (CMA) and Certified in Financial Management (CFM).

Note that the specialization courses listed below provide content in accounting subjects other than managerial accounting, since the latter is contained in the required MBA core course, ACC 604 Managerial Accounting. Students who plan to sit for the CPA Exam should consider taking the more comprehensive intermediate-level financial accounting courses ACC 410A and ACC 410B instead of ACC 650 and replace ACC 650 with another graduate-level accounting, tax or finance course (see footnote, below). In order to sit for the CPA Exam in California, candidates are required to have a bachelor's degree in any discipline and to have completed 24 semester units (8 courses; 36 quarter units) in accounting, plus 24 semester units (8 courses; 36 quarter units) in business which includes business law, mathematics, statistics, computer science and information systems.

Before taking any of the courses in the Area of Specialization, students are advised to contact a full-time faculty person in the department for a brief interview by phone or personal visit. The purpose of this visit is to review the student's career objectives and educational requirements.

Prerequisite for Specialization

(1 course; 4.5 quarter units)

ACC 201 Financial Accounting Fundamentals

Program Requirements

(4 courses; 18 quarter units)

- ACC 650 Financial Accounting Theory*
- ACC 652 Taxation for Investors and Managers
- ACC 655 Auditing and Internal Control
- ACC 657 Accounting Information Systems

* For a more in-depth study of intermediate-level financial accounting topics, students may wish to consider taking two undergraduate Intermediate Accounting courses, ACC 410A and ACC 410B, in which case ACC 650 will be waived as a required course but must be replaced by a graduate level course in Accounting, Tax, or Finance. ACC 654 Accounting for Not-For-Profit Entities is recommended for CPA Exam candidates.

Specialization in Accounting for Financial Executives

(884)

Faculty Advisor: Donald Schwartz • (858) 642-8420 • dschwartz@nu.edu

Designed for those students whose undergraduate degree is in accounting or who now wish to obtain an MBA degree, the goal of this program is to enable students to expand their knowledge and insight as to contemporary accounting issues relating to strategic planning and decision-making in commercial and nonprofit enterprises.

Before taking any of the courses in the Area of Specialization, students are advised to contact a full-time faculty person in the
department for a brief interview by phone or personal visit. The purpose of this visit is to review the student’s career objectives and educational requirements.

Prerequisites for Specialization
(5 courses; 22.5 quarter units)

ACC 201  Financial Accounting Fundamentals  
ACC 202  Managerial Accounting Fundamentals  
ACC 410A  Financial Accounting I  
ACC 410B  Financial Accounting II  
ACC 433A  Managerial Accounting I  

Program Requirements
(4 courses; 18 quarter units)

ACC 657  Accounting Information Systems  
ACC 653  Strategic Cost Management  
ACC 654  Accounting for Not-For-Profit Entities  
ACC 658  International Accounting  

Specialization in Electronic Business
(874)
Faculty Advisor: Oliver Schlake • (858) 642-8417 • oschlake@nu.edu

This specialization enables MBA students to become familiar with the principles and theories of electronic business, defined as business conducted on the Internet and/or the World Wide Web. Online marketing, Web sites and programming languages are some of the topics covered in the curriculum.

Prerequisite for Specialization
(1 course; 4.5 quarter units)

EB 620  Principles of E-Business

Program Requirements
(4 courses; 18 quarter units)

EB 621  E-Strategies and Business Models  
EB 624  Internet Marketing  
EB 625  Electronic Payment Systems and Internet Security  
EB 638  E-Business Information and Knowledge Systems  

Specialization in Financial Management
(851)
Faculty Advisor: Chang G. Park • (858) 642-8402 • cpark@nu.edu

The field of finance has undergone great changes in the last decade and now represents one of the most dynamic activities within companies of all sizes, as well as within nonprofit and governmental organizations. Executives with a background in finance head about one out of three corporations today.

The financial management program is designed to provide both a sound theoretical and a conceptual framework for financial managers. Special emphasis is placed on growth and diversification policies, evaluation and management of securities portfolios, investment banking and merger strategies, analysis of foreign exchange rate movements, formulation of plans to reduce foreign exchange risk exposure and case and/or research projects dealing with contemporary financial issues.

Prerequisite for Specialization
(1 course; 4.5 quarter units)

FIN 609A  Seminar in Financial Management

Program Requirements
(4 courses; 18 quarter units)

FIN 631  Security Analysis and Portfolio Management  
FIN 632  Managing Financial Resources  
FIN 633  Financing Capital Requirements  
FIN 635  International Finance  

Specialization in Health Care Administration
(858)
Faculty Advisor: Thomas Green • (858) 642-8439 • tgreen@nu.edu

This area of specialization is designed for students who want to complete an MBA program while focusing their graduate studies in health care, one of the largest and fastest growing industries in the U.S. The program teaches students how to apply general business and management skills in the specialized field of health care. The required and elective courses provide students with a broad knowledge of health care and the unique management and organizational issues inherent to health care. Students must take the capstone course in the general MBA program, but they can take the capstone in Health Care Administration as well. The residency portion of the health care administration program is not required, but is suggested by the health care faculty, health care leaders and recruiters.

Prerequisite for Specialization
(1 course; 4.5 quarter units)

ACC 604  Managerial Accounting

Program Requirements
(4 courses; 18 quarter units)

Students can select any four of the following courses:

HC 620A  Health Care Management  
HC 636  Ambulatory Care Continuum  
HC 640  Biostatistics and Research  
HC 641  Eldercare – Issues into Practice  
HC 634  Program Planning, Strategic Planning and Evaluation  
HC 629  Health Care Finance, Budget and Managed Care  
     (Prerequisite: ACC 604)  
HC 609A  Health Care Law, Policy and Politics

Specialization in Human Resources Management
(852)
Faculty Advisor: Cynthia Larson • (858) 642-8447 • clarson@nu.edu

This area of specialization focuses on managing people, the human resources of the organization. Moving beyond common sense and
good interpersonal skills, these courses provide students with the knowledge to recruit, select, train, evaluate and compensate employees. Students learn how changes in the workplace, such as governmental regulations, global competition, developing technologies and organizational transformations, influence the performance and productivity of workers. Technical knowledge and practical skills for dealing with a multicultural workforce offer students new ideas on leadership and effective tools for managing human resources.

Program Requirements
(4 courses; 18 quarter units)

Students electing to specialize in human resources management must select four of the following courses.

- HRM 630 Legal Aspects of Human Resources Management
- HRM 632 Compensation, Incentive and Benefit Programs
- HRM 633A Seminar in Union-Management Relations
- HRM 638 Leadership and Organization Development
- HRM 636 Seminar in Training and Development
- HRM 637 Procurement and Placement
- HRM 640 Managing Human Resources in Multicultural Environments
- HRM 650 Human Resource Management for Technology
- MGT 651 Managing Safety Issues and Regulations

▲ Specialization in International Business
(853)
Faculty Advisor: Juan España • (858) 642-8448 • jespana@nu.edu

This area of specialization is designed for students who want to complete a general MBA program but want to focus their graduate studies in international business. The expertise in international business is in high demand throughout the world. The required and elective courses in this program give students a broad yet comprehensive knowledge of trading products and services in the global market. The program helps students develop skills in the fields of matching markets and products/services from global prospects.

Prerequisite for Specialization
(2 course, 9 quarter units)

- ECO 203 Principles of Microeconomics
- MKT 402A Marketing Fundamentals

Program Requirements
(4 courses; 18 quarter units)

Students electing to specialize in international business can select four of the following courses.

- ECO 630 Global Economic Geography
  (Prerequisite: ECO 203)
- MGT 637 Comparative International Management
- ECO 631 Global Trade Policy and Procedure
  (Prerequisite: ECO 630)
- MGT 680 Topics in International Business
- MKT 631 Global Marketing
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)

▲ Specialization in Marketing
(855)
Faculty Advisor: Nancy Bush • (858) 642-8421 • nbush@nu.edu

This area of specialization prepares students with the knowledge and tools they need to perform as a marketing department director or officer. The program emphasizes the global aspects of marketing, the preparation of various specialized plans for marketing, sales and advertising and the relationship between the marketing department and other departments of the firm.

Students with upper-division credit in marketing management equivalent to MKT 402A can elect to take the following program prerequisite and program requirements in the order they desire.

Prerequisite for Specialization
(1 course; 4.5 quarter units)

- MKT 602 Marketing Management
- or MKT 402A Marketing Fundamentals

Program Requirements
(4 courses; 18 quarter units)

- MKT 634 Market Research
  (Prerequisite: MKT 602 or MKT 402A)
- MGT 600 Ethical Concerns in Business and Management

Select two from the following courses:

- MKT 620 Consumer Behavior
  (Prerequisite: MKT 402A or MKT 602)
- MKT 631 Global Marketing
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)
- MKT 633 Sales Management
  (Prerequisite: MKT 402A or MKT 602)
- MKT 635 Advertising Management and Marketing Communications
  (Prerequisite: MKT 402A or MKT 602)
- MKT 670 Selected Topics in Marketing
  (Prerequisite: MKT 402A or MKT 602)

▲ Specialization in Technology Management
(857)
Faculty Advisor: Michael Pickett • (858) 642-8374 • mpickett@nu.edu

The field of technology management provides students with the essential management skills and understanding to take a proactive role in developing strategies to fully employ technology within their organization.

Program Requirements
(4 courses; 18 quarter units)

- TM 601 Data Mining Tools: Managing Technology for Competitive Advantage
- TM 602 Emerging Trends in E-Business Implementation Management
- TM 603 Information Security by Risk Analysis
- TM 604 Competitive Intelligence Techniques and Methodologies

Consult Faculty Advisor or the Chair of the Department of Management Science and Information Systems for course replacements.
The Executive Master in Business Administration (EMBA) program provides adult learners with the theories and the skills needed for executive decision-making and negotiation. The focus of this program is on multidisciplinary approaches, such as economic, political, and cultural analyses in strategic planning and development in national and international business. Moreover, the ethical application for executives in organizations is emphasized.

Degree Requirements
(12 courses; 54 quarter electives)

The program consists of eight courses. Seven core courses must be completed prior to taking EMB 696 the EMBA Project.

EMBA Core Requirements
(8 courses; 36 quarter units)

EB 620  Principles of Electronic Business
QMT 601  Quantitative Business Methods
EMB 682  Financial Accounting
EMB 683  International Economic Strategies
EMB 684  Executive Issues in Marketing and Ethics
MGT 670  Seminar in Executive Topics
EMB 689  Leadership and Negotiation
EMB 696  EMBA Project
  (Prerequisite: completion of all other core courses)

This program has two alternative tracks: a General EMBA and an EMBA with an Area of Specialization (AOS). AOS may be in International Business Relations, E-Business, or Marketing. These two tracks provide working executives with the theories, skills, and abilities to improve their performance in the workplace. For students wishing to complete a General EMBA, four electives are required. These electives may be chosen from the following courses:

General EMBA Electives
(4 courses; 18 quarter units)

EB 621  E-Strategies and Business Models
  (Prerequisite: EB 620)
EB 622  E-Business Systems Development
  (Prerequisite: EB 620)
EB 623  Advanced Web Design
  (Prerequisite: EB 620 and EB 622)
EB 624  Internet Marketing
  (Prerequisite: EB 620)
EB 625  Electronic Business Systems and Internet Security
  (Prerequisite: EB 620)
EB 635  E-Logistics and Supply Chain Management
  (Prerequisite: EB 620)
EB 638  E-Business Information and Knowledge Systems
  (Prerequisite: EB 620)
EB 640  Emerging Communication Technologies in E-Business
  (Prerequisite: EB 620)
ECO 607  Economics for Managerial Decision-Making
  (Prerequisite: ECO 205 or BUS 500C recommended)
FIN 609A  Seminar in Financial Management
  (Prerequisites: BUS 501A and BUS 501B recommended)
FIN 631  Security Analysis and Portfolio Management
  (Prerequisite: FIN 609A)
FIN 632  Managing Financial Resources
  (Prerequisite: FIN 609A)
FIN 633  Financing Capital Requirements
  (Prerequisite: FIN 609A)
FIN 635  International Finance
  (Prerequisite: FIN 609A)
HRM 630  Legal Aspects of Human Resources Management
HRM 632  Compensation, Incentive and Benefit Programs
HRM 640  Managing Human Resources in Multi-Cultural Environments
MKT 620  Consumer Behavior
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)
MKT 631  Global Marketing
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)
MKT 633  Sales Management
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)
MKT 634  Market Research
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)
MKT 635  Advertising Management and Marketing Communications
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)

EMBA AREAS OF SPECIALIZATION

▲ Specialization in International Business Relations
(885)
(4 courses; 18 quarter units)

EMB 621  Global Business Simulation
EMB 672  International Risk Management
EMB 673  International Strategic Alliances
EMB 674  Global Competitive Strategies

▲ Specialization in Electronic Business
(874)

Prerequisite for Specialization
(1 course; 4.5 quarter units)

EB 620  Principles of E-Business

Program Requirements
(4 courses; 18 quarter units)

EB 621  E-Strategies and Business Models
  (Prerequisite: EB 620)
EB 624  Internet Marketing
  (Prerequisite: EB 620)
EB 625  Electronic Payment Systems and Internet Security
  (Prerequisite: EB 620)
EB 638  E-Business Information and Knowledge Systems
  (Prerequisite: EB 620)

▲ Specialization in Marketing
(855)

Prerequisite for Specialization
(1 course; 4.5 quarter units)

MKT 602  Marketing Management
or
MKT 402A  Marketing Fundamentals

Program Requirements
(4 courses; 18 quarter units)

MKT 602  Marketing Management
MKT 634  Market Research
  (Prerequisite: MKT 602 or MKT 402A)
MGT 600  Ethical Concerns in Business and Management

Select two from the following courses:

MKT 620  Consumer Behavior
  (Prerequisite: MKT 402A or MKT 602)
MKT 631  Global Marketing
  (Prerequisite: MKT 402A or MKT 602 or EMB 684)
The Master of Forensic Sciences (MFS) is a specialized professional degree designed for law enforcement, lab personnel, attorneys, investigators and other professionals seeking to upgrade their existing skills, as well as individuals who are interested in pursuing a career in the forensic sciences, law, law enforcement, private or governmental laboratories, jails and corrections and Medical Examiner’s Office. The field of forensics focuses on the application of scientific methods to the resolution of legal problems.

The Master of Forensic Sciences degree program offers two areas of specialization (AOS). It is required that the student take one AOS. The first AOS is a Specialization in Criminalistics and requires that students have an undergraduate degree in physical science. The specialization courses include Trace Evidence, Advanced Forensic Toxicology, Advanced Forensic Serology and DNA, and Forensic Anthropology and Archeology, as well as coursework in: Forensic Medicine and Pathology; Psychology, Psychiatry, and the Law; Major Case Investigation; Crime Scene Investigation; and Criminal Investigation Analysis (Profiling). The program culminates in a supervised master’s research project directed by full-time faculty and a committee of associate and core adjunct faculty selected by students from their program.

The second AOS is a Specialization in Investigation. This program is designed to provide graduate education in the most current and advanced forensic investigative techniques available in the field, with a wide understanding of the concepts underlying the forensic sciences. This program is suitable for those students who are interested in pursuing a career in forensic crime and death investigations. The program also allows individuals who are currently working in forensic investigation areas to develop and upgrade their individual educational skills. The specialization courses include Advanced Criminalistics, Electronic Crime Scene Investigation: Computer Forensics, Constitution and Criminal Procedure, and Advanced Fingerprint Analysis. The program also includes scientific writing and forensic-related research. The program culminates in a supervised master’s research project directed by full-time faculty and a committee of associate and core adjunct faculty selected by students from their program.

**Degree Requirements**
(12 courses; 36 quarter units)

For students in the BS in Criminal Justice Administration/MFS Transition Program, the University will waive the two Forensic Sciences taken as part of the bachelor’s degree (see BS in Criminal Justice Transition Program), but these students must still meet the residency requirements for the MFS.

To receive an MFS, students must complete at least 54 quarter units of graduate course work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree. Students should refer to the section on graduate admission requirements for specific information regarding application and matriculation.

Students must have an undergraduate degree in a laboratory science in order to enroll in the Master of Forensic Sciences with a Specialization in Criminalistics. The Master of Forensic Sciences with a Specialization in Investigation does not have a specific major requirement for the undergraduate degree.

**Program Requirements**
(8 courses; 36 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>FS 630</td>
<td>Principles of Forensic Medicine</td>
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<tr>
<td>FS 642</td>
<td>Forensic Pathology (Prerequisite: FS 630)</td>
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<tr>
<td>FS 643</td>
<td>Forensic Psychology, Psychiatry and the Law</td>
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<tr>
<td>FS 648</td>
<td>Forensic and Crime Scene Photography</td>
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<tr>
<td>FS 631</td>
<td>Major Case Investigation</td>
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<tr>
<td>FS 647</td>
<td>Crime Scene Investigation</td>
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<tr>
<td>FS 654</td>
<td>Criminal Investigation Analysis: Profiling</td>
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<tr>
<td>FS 662</td>
<td>Supervised Graduate Research Project*</td>
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<td>*(This is a two-month, one-meeting-per-week course with a significant</td>
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<tr>
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<td>research component. Grading is by &quot;H&quot; (for Honors, &quot;B&quot; or better work),</td>
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<td>&quot;S&quot; (for marginal, &quot;C&quot; level work), or &quot;U&quot;(Unsatisfactory, &quot;D&quot; or below).</td>
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<td>Students who do not complete the Research Project within the two-month</td>
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<td></td>
<td>period are eligible, at the discretion of the instructor, to receive a grade</td>
</tr>
<tr>
<td></td>
<td>of &quot;K&quot; with a maximum of a one time six-month extension. Students who do</td>
</tr>
<tr>
<td></td>
<td>not complete the project at the end of the extension period will need to take</td>
</tr>
<tr>
<td></td>
<td>FS 662. No grade of “I” (Incomplete) can be given for this course.</td>
</tr>
</tbody>
</table>

**MFS AREAS OF SPECIALIZATION**

▲ Specialization in Criminalistics
(886)
(4 courses; 18 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 632</td>
<td>Trace Evidence</td>
</tr>
<tr>
<td>FS 633</td>
<td>Advanced Forensic Toxicology</td>
</tr>
<tr>
<td>FS 634</td>
<td>Advanced Forensic Serology and DNA</td>
</tr>
<tr>
<td>FS 635</td>
<td>Forensic Anthropology and Archeology</td>
</tr>
</tbody>
</table>

▲ Specialization in Investigation
(887)
(4 courses; 18 quarter units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 620</td>
<td>Advanced Criminalistics</td>
</tr>
<tr>
<td>FS 621</td>
<td>Electronic Crime Scene Investigation: Computer Forensics</td>
</tr>
<tr>
<td>FS 622</td>
<td>Constitution and Criminal Procedure</td>
</tr>
<tr>
<td>FS 623</td>
<td>Advanced Fingerprint Analysis</td>
</tr>
</tbody>
</table>

**Program Electives**

For electives, students can take courses with prefixes from the School of Business and Information Management, or they can take:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 661</td>
<td>Internship in Forensic Sciences</td>
</tr>
<tr>
<td></td>
<td>*(1.5-4.5 quarter units)</td>
</tr>
<tr>
<td>FS 651</td>
<td>Selected Topics in Forensic Sciences</td>
</tr>
<tr>
<td>FS 690</td>
<td>Guided Study in Forensic Sciences</td>
</tr>
<tr>
<td></td>
<td>*(1.5-4.5 quarter units)</td>
</tr>
</tbody>
</table>

**MASTER OF HEALTH CARE ADMINISTRATION (M.H.C.A.)**
(732)

Faculty Advisor: Thomas Green • (858) 642-8439 • tgreen@nu.edu

The field of health care administration offers students an excellent opportunity to focus their graduate business study in one of the largest industries in the United States. Major changes are occurring...
within the U.S. health delivery system. Population growth continues in all age groups. These demographics have increased the demand for graduates with an academic foundation in health care management. Opportunities are noted in government at all levels, public health, professional agencies at multiple levels and in the direct delivery system.

This unique and rewarding professional program provides students with a carefully structured range of health care administration courses and enhances students’ understanding of the U.S. health delivery system. This field of study focuses on the emergence of our health care system and its various components as outlined in the Health Care Management Program Handbook. Graduates also enhance their opportunities for professional growth and job placement in this prestigious field through carefully planned residencies. Students also participate in scholastic research focusing on specific health care issues as the current delivery system undergoes reform.

**Degree Requirements**
(12 courses; 54 quarter units)

To receive an MHCA degree, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree. Refer to the section on graduate admission requirements for specific information regarding application and matriculation.

**Program Prerequisite**
(1 course; 4.5 quarter units)

ACC 604 Managerial Accounting

**Program Requirements**
(12 courses; 54 quarter units)

It is recommended that students take the following courses in sequence:

- HRM 640 Managing Human Resources in Multicultural Environments
- MKT 602 Marketing Management
- TM 620 Principles of Technology Management
- HC 620A Health Care Management
- HC 636 Ambulatory Care Continuum
- HC 634 Program Planning, Strategic Planning and Evaluation
- HC 629 Health Care Finance, Budget and Managed Care
  (Prerequisite: ACC 604)
- HC 609A Health Care Law, Policy, Politics and Ethics
- HC 640 Biostatistics and Research
- HC 641 Elder Care – Issues into Practice
- HC 691A Internship
  Internship = 500 clock hours of onsite work
  or
- HC 691B Research Practicum

Research Practicum = formal academic master level written work

students must have completed five courses in the health care sequence before taking the capstone. Students are strongly encouraged to take HC 640, Biostatistics, before beginning any quantitative research project, regardless of the number of courses completed in the sequence.

The lead faculty for the MHCA Program may make exceptions and allow students who have completed at least three courses in the health care sequence to take the capstone. In making this decision, the following criteria will be used:

- The student’s background in health care and research methods
- Topic of the research or focus of the internship
- Any compelling reasons related to timing (for example, the desired internship opportunity will not be available at a later time)

**Program Elective**
(1 course; 4.5 quarter units)

For electives, students should select a 600 level course offered in the School of Business and Information Management, or those offered with the approval of the dean of the School of Business and Information Management. Note: It is recommended that students use ACC 604 as the elective for the MHCA program.

**MASTER OF PUBLIC ADMINISTRATION (M.P.A.)**
(740)
Faculty Advisor: Kenneth Goldberg • (858) 642-8478 • kgoldber@nu.edu

The Master of Public Administration is designed for students who want to pursue the challenging career of government management at the federal, state, or local level. With an emphasis on new public management, for those public administrators who aspire to top-level positions, this degree provides a wide range of skills in budgeting, quantitative methods, public relations, personnel policies, politics and media relations.

**Degree Requirements**
(12 courses; 54 quarter units)

For students in the BS in Criminal Justice Administration/MPA Transition Program, the University will waive two Public Administration courses taken as part of the bachelor’s degree (see BS in Criminal Justice Administration Transition Program), but these students must still meet the residency requirements for the MPA.

To receive a Master of Public Administration, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree. Students should refer to the section on graduate admission requirements for specific information regarding application and matriculation.

**Program Requirements**
(9 courses; 40.5 quarter units)

For electives, students should select a general set of 600-level courses offered in the School of Business and Information Management, or those offered in other schools with the approval of the dean of the School of Business and Information Management.
Students must complete graduate-level course work taken as part of the BBA degree with a grade of B or better. This course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

**BSITM/MSEB TRANSITION PROGRAM**

The BSITM/MSEB Transition Program allows currently enrolled BSITM students with a grade point average of at least 3.0 who are within completing their last six courses to register for two MSEB courses as electives for their BSITM degree. Students can select EB 620 and one of the following two courses: EB 621 or EB 624. The number of courses required to earn an MSEB degree for Transition Program students is reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MSEB and begin their program of study within six months after completing their final BSITM course. Students must complete the 10-course MSEB program within four years with no break exceeding 12 months.

Students must complete graduate-level course work taken as part of the BSITM degree with a grade of B or better. This course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

**MS IN E-BUSINESS TRANSITION PROGRAMS**

**BBA/MSEB TRANSITION PROGRAM**

The BBA/MSEB Transition Program allows currently enrolled BBA students with a grade point average of at least 3.0 who are within completing their last six courses to register for two MSTM courses as electives for their BBA degree. Students can select EB 620 and one of the following two courses: EB 621 or EB 624. The number of courses required to earn an MSEB degree for Transition Program students is reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MSEB and begin their program of study within six months after completing their final BBA course. Students must complete the 10-course MSEB program within four years with no break exceeding 12 months.

Students must complete graduate-level course work taken as part of...
The Master of Science in Finance will seek to provide adult learners with professional knowledge and analytic skills required to function effectively in the fast changing and ever evolving financial world. Students with MS in Finance degree will be able to enter into one of four careers: (1) a financial position in a private corporate setting; (2) an investment strategist position; (3) a managerial position in financial institutions; and (4) a treasurer position in various governmental organizations. With an added emphasis on the global concerns of financial managers, this program is structured to enable a graduate to attain one of the above career objectives. The students will also be able to sit for CFA and/or CFP exams at the conclusion of the program.

**Program Electives**
(1 course; 4.5 quarter units)

- FIN 635 International Finance  
  *(Prerequisite: FIN 609A)*
- FIN 641 Advanced Security Analysis and Portfolio Management  
  *(Prerequisite: FIN 609A & FIN 631)*
- FIN 650 Global Financing for Trade
- FIN 651 Commercial Bank Management
- FIN 652 Real Estate Finance
- FIN 653 Financial Engineering and Derivatives
- FIN 654 Cases in Finance*
- FIN 655 MS in Finance Project**

*FIN 654 is a capstone course. To enroll in FIN 654, students must first complete at least 27 quarter units of the above core courses, not including FIN 655.

**Students should schedule FIN 655 toward the end of their program. The minimum requirements are the completion of FIN 609A and at least 27 quarter units in the Program.

**Program Electives**
(1 course; 4.5 quarter units)

- FIN 600 Managerial Finance  
  *(Prerequisite: FIN 609A)*
- FIN 632 Managing Financial Resources  
  *(Prerequisite: FIN 609A)*
- FIN 633 Financing Capital Requirements  
  *(Prerequisite: FIN 609A)*
- ACC 604 Managerial Accounting  
  *(Prerequisite: ACC 201)*
- ECO 631 Global Trade Policy and Procedure  
  *(Prerequisite: ECO 603)*

Note: Electives from outside these courses may be taken with the approval of the lead faculty in Finance.

The Master of Science in Information Systems (MSIS) program is designed to provide participants with the requisite knowledge, skills, business, strategic and technical skills needed to help their companies apply information systems technology more efficiently and effectively. Although the higher education system produces large numbers of highly educated people in both information systems (IS) and computer science (CS), skilled information systems people are in short supply in industry. Even scarcer are talented people with advanced knowledge for managing information systems. It is the objective of the MSIS program to fill this gap by providing the advanced education. Essential career development skills including oral, written and presentation skills; people and business skills; and ethics and professionalism are integrated throughout the curriculum and its individual courses. The curriculum is designed as a set of interrelated building blocks consisting of foundations, core, integration and career tracks.

**MS in Information Systems Transition Programs**

**BSIS/MSIS Transition Program**

The BSIS/MSIS Transition Program allows currently enrolled BSIS students with a grade point average of at least 3.0 who are within completing their last six courses to register for two MSIS courses as electives for their BSIS degree. Students can select IS 601 and one of the following two courses: IS 602 or IS 603. The number of courses required to earn an MSIS degree for Transition Program students is...
School of Business and Information Management

Reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MSIS and begin their program of study within six months after completing their final BSIS course. Students must complete the 10-course MSIS program within four years with no break exceeding 12 months.

Students must complete graduate-level course work taken as part of the BSIS degree with a grade of B or better. This course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

BSITM/MSIS TRANSITION PROGRAM

The BSITM/MSIS Transition Program allows currently enrolled BSITM students with a grade point average of at least 3.0 who are within completing their last six courses to register for two MSIS courses as electives for their BSITM degree. Students must select IS 601 and one of the following two courses: IS 602 or IS 603. The number of courses required to earn an MSIS degree for Transition Program students is reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MSIS and begin their program of study within six months after completing their final BSIS course. Students must complete the 10-course MSIS program within four years with no break exceeding 12 months.

Students must complete graduate-level course work taken as part of the BSITM degree with a grade of B or better. This course work will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

Admission Requirements

Candidates seeking admission to the program must possess a baccalaureate degree in Information Systems or closely related areas.

Degree Requirements

(12 courses; 54 quarter units)

The MSIS program requires the completion of 54-quarter units of graduate course work. Where appropriate, a maximum of 13.5-quarter units of graduate work completed at another regionally accredited institution may be transferred to meet stated requirements in the program. The degree program consists of ten courses plus the two-part MSIS graduate project (two courses; 4.5 quarter units each) that cannot be taken until all other core courses have been completed. Prior to beginning any graduate level course, students who do not possess a baccalaureate degree in Information Systems or closely related areas must complete the program prerequisites.

Program Prerequisites

(3 courses; 13.5 quarter units)

IS 302 Data Mining
IS 446 Data Modeling in an Information Technology Environment
EB 620 Principles of E-Business

Program Core Requirements

(12 courses; 54 quarter units)

IS 601 Information Systems Strategies, Policies and Ethics
IS 602 Network Services and Protocols (Prerequisite: IS 601)

IS 603 Database Management for Decision Support Systems (Prerequisites: IS 302, IS 446, and EB 620)
IS 604 Organizational Management and Information Security (Prerequisite: IS 601)
IS 606 End User Information Systems (Prerequisite: IS 601)
IS 607 Systems Integration and Client/Server Computing (Prerequisite: IS 601)
IS 608 Knowledge Management-Knowledge-Based Systems (Prerequisites: IS 302, IS 446, and IS 601)
IS 609 Automated Knowledge Management Systems (Prerequisite: IS 608)
EB 625 Electronic Payment Systems/Internet Security (Prerequisite: EB 620)
EB 635 E-Logistic and Supply-Chain-Management (Prerequisite: EB 620)
IS 620A Master’s Research Project I (Prerequisites: All core requirements)
IS 620B Master’s Research Project II (Prerequisite: IS 620A)

MASTER OF SCIENCE (M.S.) IN TAXATION

(720-805)
Faculty Advisor: Forrest Young • (714) 429-5404 • fyoun@nu.edu

The goal of this program is to provide students with the advanced level of knowledge and skills needed for a professional career in tax preparation and consulting for individuals, business and nonprofit entities. It is recommended that candidates possess an undergraduate degree in accounting or finance.

Degree Requirements

(12 courses; 54 quarter units)

To receive a Master of Science in Taxation, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree. Students should refer to the section on graduate admission requirements for specific information regarding application and matriculation.

Program Prerequisites

(3 courses; 13.5 quarter units)

The following courses or their equivalents must be completed prior to taking any of the required core courses:
ACC 201 Financial Accounting Fundamentals
ACC 432A Taxation-Individual
ACC 432B Taxation – Business

Program Requirements

(12 courses; 54 quarter units)

TAX 601 Tax Research and Decision Making (Prerequisite: ACC 201)
TAX 602 Federal Tax Procedure (Prerequisite: ACC 201)
TAX 603A Federal Income Taxation Theory for Individuals (Prerequisite: ACC 201)
TAX 603B Technological and Practical Aspects of Federal Taxation for Individuals (Prerequisite: TAX 603A)
TAX 605A Federal Taxation of Partners and Partnerships (Prerequisite: ACC 201)
TAX 605B Federal Taxation Theory of Corporations and Shareholders (Prerequisite: ACC 201)
TECHNOLOGY MANAGEMENT

BSITM students with a grade point average of at least 3.0 who are currently enrolled in the BSITM/MSTM Transition Program allows students to transfer up to 12 graduate credit hours. Grades earned in graduate level courses will be calculated as part of the student's undergraduate Grade Point Average. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

The BSIS/MSTM Transition Program allows currently enrolled BSIS students with a grade point average of at least 3.0 who are within completing their last six courses to register for two MSTM courses as electives for their BSIS degree. Students can select any two of the following three courses: TM 620, TM 601, or TM 604. The number of courses required to earn an MSTM degree for Transition Program students is reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MSTM and begin their program of study within six months after completing their final BSITM course. Students must complete graduate-level coursework as part of the BSITM degree with a grade of B or better. This coursework will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

BSIS/MSTM TRANSITION PROGRAM

The BSIS/MSTM Transition Program allows currently enrolled BSIS students with a grade point average of at least 3.0 who are within completing their last six courses to register for two MSTM courses as electives for their BSIS degree. Students can select any two of the following three courses: TM 620, TM 601, or TM 604. The number of courses required to earn an MSTM degree for Transition Program students is reduced from 12 to 10 courses. To be eligible for the Transition Program, students must apply for the MSTM and begin their program of study within six months after completing their final BSIS course. Students must complete graduate-level coursework as part of the BSIS degree with a grade of B or better. This coursework will not transfer as graduate-level credit to National University or any other institution as it is part of an undergraduate degree program. Grades earned in graduate level courses will be calculated as part of the student’s undergraduate Grade Point Average.

Degree Requirements

(12 courses; 54 quarter units)

To receive a Master of Science in Technology Management, students must complete at least 54 quarter units of graduate coursework. A total of 13.5 quarter units of graduate credit may be granted for equivalent work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree. Refer to the section on graduate admission requirements for specific information regarding application and matriculation.

Program Requirements

(11 courses; 49.5 quarter units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 601</td>
<td>Information Systems, Strategies, Policies and Ethics</td>
<td></td>
</tr>
<tr>
<td>TM 601</td>
<td>Data-Mining Tools: Managing Technology for Competitive Advantage</td>
<td></td>
</tr>
<tr>
<td>TM 603</td>
<td>Information Security Risk Analysis</td>
<td></td>
</tr>
<tr>
<td>TM 604</td>
<td>Competitive Intelligence Techniques and Methodologies</td>
<td></td>
</tr>
<tr>
<td>TM 620</td>
<td>Principles of Technology Management</td>
<td></td>
</tr>
<tr>
<td>TM 625</td>
<td>Systems Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>TM 635</td>
<td>Strategic Management of Technology and Innovation</td>
<td></td>
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<tr>
<td>TM 655</td>
<td>Management of R&amp;D and Innovation Processes</td>
<td></td>
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<tr>
<td>TM 640</td>
<td>Managing Technological Change</td>
<td></td>
</tr>
<tr>
<td>QMT 601</td>
<td>Quantitative Methods in Business</td>
<td></td>
</tr>
<tr>
<td>TM 650</td>
<td>Master’s Research Project*</td>
<td>(Prerequisite: QMT 601 and 27 quarter units of core requirements)</td>
</tr>
</tbody>
</table>

Elective

(1 course; 4.5 quarter units)

One 600-level course taken from TM, EB, IS, HRM, MGT, FIN, ACC, LED, or MKT
Certificate Programs

(670-770)

Students who are pursuing a bachelors or masters degree may qualify for one of the certificates listed below provided that the student requests the certificate prior to the completion of their degree program. Certificates will not be issued once a degree has been awarded.

Note: For further information regarding certificate programs, please see an admissions advisor.

● Certificate in Accountancy
  Faculty Advisor: Donald Schwartz • (858) 642-8420 • dschwart@nu.edu

Designed for students who wish to prepare for entry into the accounting profession and have as an objective one of the recognized professional accounting designations, including Certified Public Accountant (CPA), Certified Management Accounting (CMA) and Certified in Financial Management (CFM). All three designations require a baccalaureate degree. Though the degree can be in any discipline, CPA exam candidates in California must have completed 24 semester units (8 courses; 36 quarter units) in accounting or tax and 24 semester units (8 courses; 36 quarter units) in business which includes business law, mathematics, statistics, computer science and information systems.

Students who wish to pursue a baccalaureate degree, or a second baccalaureate degree, or a master’s degree can apply some or all of the academic credits awarded in the certificate program toward that degree, depending upon the requirements of that degree program.

Before taking any of the courses in the Certificate in Accountancy program, students are strongly advised to contact a full-time accounting faculty person for a brief interview by phone or personal visit to review the student’s career objectives and provide guidance as to the courses to be selected.

Prerequisite

ACC 201 Financial Accounting Fundamentals or its equivalent is a prerequisite for all other undergraduate and graduate accounting courses in these certificate programs. Before taking any other accounting courses in this program, students must complete ACC 201 or its equivalent within two years with a grade of “C” or better, unless they receive an equivalent grade on an accounting aptitude exam.

Certificate Requirements

(6 courses; 27 quarter units)

To receive a Certificate in Accountancy, students must complete six of the courses listed below. To assist students in selecting the six courses, the abbreviations in brackets, e.g. [CPA], indicate the professional exam(s) for which that course is most beneficial. “ALL” refers to all three exams: CPA, CMA and CFM. It should be noted that six courses may not provide all the subject matter covered by these exams. It is strongly recommended that students consult with full-time accounting faculty before enrolling in the Certificate in Accountancy.

Undergraduate Series

(670-000-450)

Available to both undergraduate and graduate students.

ACC 202 Managerial Accounting Fundamentals [CPA]
LAW 304 Legal Aspects of Business I [CPA]
ACC 410A Intermediate Accounting I [ALL]
(Prerequisite: ACC 201)
ACC 410B Intermediate Accounting II [ALL]
(Prerequisite: ACC 410A)
ACC 432B Taxation-Business [ALL]
ACC 433A Managerial Accounting I [CMA]
(Prerequisite: ACC 202)
ACC 433B Managerial Accounting II [CMA]
(Prerequisite: ACC 433A)
ACC 434 Government and Nonprofit Accounting [CPA]
ACC 435A Auditing I [ALL]
(Prerequisite: ACC 410A)
ACC 435B Auditing II [CPA]
(Prerequisite: ACC 435B)
ACC 410C Intermediate Accounting III [CPA]
(Prerequisite: ACC 410B)
ACC 431 Advanced Accounting [CPA]
ACC 432A Taxation – Individual [CPA]

* See “Prerequisite”, above, relating to waiver of ACC 201

Graduate Series

(770-000-850)

Available only to students eligible to enroll in graduate programs. These students may also select from the undergraduate series, but only the 600-level courses can be applied to a graduate degree program.

ACC 201 Financial Accounting Fundamentals*
ACC 604 Managerial Accounting [ALL]
(Prerequisite: ACC 201)
ACC 650 Financial Accounting Theory [ALL]
(Prerequisite: ACC 201)
ACC 652 Taxation for Investors and Managers [CPA]
(Prerequisite: ACC 201)
ACC 654 Accounting for Not-For-Profit Entities [CPA]
(Prerequisite: ACC 201)
ACC 655 Auditing and Internal Control [ALL]
(Prerequisite: ACC 201)
ACC 657 Accounting Information Systems [ALL]
(Prerequisite: ACC 201)

* See “Prerequisite”, above, relating to waiver of ACC 201

● Certificate in Criminal Justice Administration
(670-000-466)
Faculty Advisor: Chandrika Kelso • (858) 642-8433 • ckelso@nu.edu

Students may take the Certificate Program in Criminal Justice. This coursework and the accompanying credits may be transferred to appropriate degree programs if all other requirements for admission to a degree program are met.

This certificate provides students with an overview of some of the most important pillars of the criminal justice field. Students will gain insight into the principles, problems and solutions of supervision and management of personnel in the criminal justice agencies, the issues and theories surrounding the field of Corrections, an understanding of the behavioral, psychological, sociological motivational factors of criminality and finally, a study of the intricacies within the judicial process of criminal justice.
Certificate Requirements
(4 courses; 18 quarter units)

CJ 446 Criminal Justice Management and Leadership
CJ 440 Corrections
CJ 431 Criminology
CJ 451 Court Systems and the Judicial Process

Certificate in Electronic Business
(770-000-874)
Faculty Advisor: Oliver Schlake • (858) 642-8417 • oschlake@nu.edu

Students may take the Certificate Program in Electronic Business. This coursework and the accompanying credits may be transferred to appropriate degree programs if all other requirements for admission to a degree program are met. To receive certification, students are required to successfully complete four courses and to achieve a passing grade on a comprehensive text covering these four areas. Students may take selected courses in one-day (eight-hour) seminar format. No credit is offered for courses taken in this format. This certificate program is designed for individuals who want to become proficient in the new business models and technology involved in conducting business on the Internet and/or the World Wide Web. Qualified people in electronic business are needed as this field of study has matured. E-Business is a complex area of study that requires the ability to integrate managerial, technical and strategic knowledge. Students who later want to pursue a master’s degree can apply some or all of the academic credits awarded in the certificate program toward their degrees. To apply these credits to a degree program, students must meet the GPA and other requirements of that degree program.

Certificate Requirements
(5 courses; 22.5 quarter units)

EB 620 Principles of E-Business
EB 621 E-Strategies and Business Models (Prerequisite: EB 620)
EB 622 E-Business Systems Development (Prerequisite: EB 620)
EB 624 Internet Marketing (Prerequisite: EB 620)
EB 625 Electronic Payment Systems and Internet Security (Prerequisite: EB 620)

Certificate in Finance
(670-000-474)
Faculty Advisor: Chang C. Park • (858) 642-8402 • cpark@nu.edu

Students may take the Certificate Program in Finance. This coursework and the accompanying credits may be transferred to appropriate degree programs if all other requirements for admission to a degree program are met. Students may take selected courses in one-day (eight-hour) seminar format. No credit is offered for courses taken in this format.

A Certificate in Finance is designed for students who are interested in buttressing their business acumen, in acquiring analytical skills, or who may desire to supplement their financial background. Career opportunities include three interrelated areas: financial institutions, investments and financial management.

Expertise in finance is a sought after and unique skill. This certificate prepares students for managerial responsibilities in organizations such as banks, insurance companies, securities firms, commercial and not-for-profit organizations. The four courses that comprise this certificate provide a broad yet comprehensive knowledge of financial management.

Upon completion, students will have acquired critical skills in the analysis of accounting, market and economic data. This will prepare them for expanded opportunities in diverse industries.

Certificate Prerequisites
(1 course; 4.5 quarter units)

IS 301 Management Information Systems

Certificate Requirements
(4 courses; 18 quarter units)

FIN 448 Seminar in Finance
FIN 446 International Financial Management
FIN 444 Risk Management and Insurance (Prerequisites: FIN 310 and FIN 440)
FIN 443 Working Capital Management (Prerequisites: FIN 310 and FIN 440)

Certificate in Information Technology
(670-000-465)
Faculty Advisor: John Bugado • (858) 642-8407 • jbugado@nu.edu

This certificate program offers students interested in technology-related careers the opportunity to develop the professional expertise to apply and manage technology in a variety of situations. With this certificate, students can pursue careers in fields such as marketing, information management, customer service, data management and sales. Students who later want to pursue a baccalaureate degree can apply some or all of the academic credits awarded in the certificate program toward their degree assuming they meet the GPA and other requirements of that program.

Certificate Prerequisites:
(Prerequisites: FIN 310 and FIN 440)

Certificate Requirements
(4 courses; 18 quarter units)

ACC 201 Financial Accounting Fundamentals
ACC 202 Managerial Accounting Fundamentals (Prerequisite: ACC 202)
FIN 310 Business Finance (Prerequisites: ACC 201 and ACC 202)
FIN 440 Financial Institutions (Prerequisite: FIN 310)
FIN 444 Risk Management and Insurance (Prerequisites: FIN 310 and FIN 440)
FIN 446 International Financial Management (Prerequisites: FIN 310 and FIN 440)
FIN 448 Seminar in Finance (Prerequisites: FIN 310, FIN 440, FIN 442, FIN 443, and FIN 446)

Certificate in Human Resources Management
(670-000-475)
Faculty Advisor: Cynthia Larson • (858) 642-8447 • clarson@nu.edu

This certificate is designed for those who wish to gain the knowledge and skills in HRM which are appropriate for professional and supervisory careers in the field of Human Resources Management.

Certificate Requirements
(4 courses; 18 quarter units)

HRM 409B Survey in Human Resources Management and Organization Development
HRM 432 Recruiting, Selection, Promotion, and Retention (Prerequisite: HRM 409B)
HRM 433 Pay and Benefit Administration, and HR Technology (Prerequisite: HRM 409B)
HRM 439 Legal, Regulatory and Labor Relation Concerns in HRM (Prerequisite: HRM 409B)

Certificate in Information Technology
(670-000-465)
Faculty Advisor: John Bugado • (858) 642-8407 • jbugado@nu.edu

This certificate program offers students interested in technology-related careers the opportunity to develop the professional expertise to apply and manage technology in a variety of situations. With this certificate, students can pursue careers in fields such as marketing, information management, customer service, data management and sales. Students who later want to pursue a baccalaureate degree can apply some or all of the academic credits awarded in the certificate program toward their degree assuming they meet the GPA and other requirements of that program.

Certificate Prerequisites:
(Prerequisites: ACC 201 and ACC 202)

Certificate Requirements
(5 courses; 22.5 quarter units)

ACC 201 Financial Accounting Fundamentals
ACC 202 Managerial Accounting Fundamentals (Prerequisite: ACC 202)
FIN 310 Business Finance (Prerequisites: ACC 201 and ACC 202)
FIN 440 Financial Institutions (Prerequisite: FIN 310)
FIN 444 Risk Management and Insurance (Prerequisites: FIN 310 and FIN 440)
FIN 446 International Financial Management (Prerequisites: FIN 310 and FIN 440)
FIN 448 Seminar in Finance (Prerequisites: FIN 310, FIN 440, FIN 442, FIN 443, and FIN 446)
Certificate Requirements
(5 courses; 22.5 quarter units)

ITM 310 Introduction to Information Technology
(Prerequisite: ITM 310)
ITM 410 Computer Network Technologies Overview
ITM 420 Network Management Principles and Practices
ITM 440 Database Systems Concepts and Data Modeling

Elective
Choose one of the following:

ITM 320 Information Technology Management
(Prerequisite: ITM 310)
ITM 330 Desktop Applications and Information Processing
ITM 450 Database Processing and Administration
(Prerequisite: ITM 440)

● Certificate in International Business
(770-000-883)
Faculty Advisor: Juan España • (858) 642-8448 • jespana@nu.edu

Students may take the Certificate Program in International Business (4 courses; 18 quarter units). This coursework and the accompanying credits may be transferred to appropriate degree programs if all other requirements for admission to a degree program are met. Students may take selected courses in one-day (eight-hour) seminar format. No credit is offered for courses taken in this format.

This certificate program is designed for students who are employed by companies that have international operations, who compete against those who do, or who have an interest in exploring this as a career option. Expertise in International Business is in high demand throughout the world. The four courses that comprise this certificate provide a broad yet comprehensive knowledge of trading products and services in the global market. Upon completion, students will have developed skills enabling them to match markets with goods and services from a global prospect.

Certificate Prerequisites
(3 courses; 13.5 quarter units)

ECO 203 Principles of Microeconomics
MKT 402A Marketing Fundamentals
or
MKT 602A Marketing Management
ECO 630 Global Economic Geography
(Prerequisites: ECO 203 or BUS 500C)

Certificate Requirements
(4 courses; 18 quarter units)

MGT 630 Global Business Environment
MGT 637 Comparative International Management
MKT 631 Global Marketing
(Prerequisites: MKT 402A or MKT 602 or EMB 684)
ECO 631 Global Trade Policy and Procedures
(Prerequisite: ECO 630)

● Certificate in Marketing
(670-000-476)
Faculty Advisor: Nancy Bush • (858) 642-8421 • nbush@nu.edu

Students may take the Certificate Program in Marketing. This coursework and the accompanying credits may be transferred to appropriate degree programs if all other requirements for admission to a degree program are met. To receive certification, students are required to successfully complete four courses and to achieve a passing grade on a comprehensive text covering these four areas. Students may take selected courses in one-day (eight-hour) seminar format. No credit is offered for courses taken in this format.

This certificate program is designed to allow individuals (1) in the fields of marketing, sales and secondary level marketing education to enhance their performance through continuing education and (2) teachers at the secondary education level who teach business-related courses and wish to teach marketing courses. The program validates the knowledge of the employee and provides concrete evidence of marketing proficiency for the employer.

Certificate Requirements
(4 courses; 18 quarter units)

MKT 402A Marketing Fundamentals
MKT 420 Consumer Behavior
(Prerequisite: MKT 402A)
MKT 434 Market Research
(Prerequisite: MKT 402A)
MKT 443 Introduction to Advertising
(Prerequisite: MKT 402A)

● Certificate in Health Care Administration
(670-000-177)
Faculty Advisor: Thomas Green • (858) 642-8439 • tgreen@nu.edu

Students may take the Certificate Program in Health Care Administration (4 courses; 18 quarter units). This coursework and the accompanying credits may be transferred to appropriate degree programs if all other requirements for admission to a degree program are met. Students must successfully complete all four courses to achieve the Certificate. The certificate program is designed for individuals who are working in the health care area and wish to strengthen their professional knowledge and skills, as well as for professionals in related areas (such as management, finance, information technology, and other areas of business) who want to learn more about the rapidly growing health care industry.

Certificate Requirements
(4 courses; 18 quarter units)

HC 620A Health Care Management
HC 629A Health Care Law, Policy, Politics, and Ethics
HC 629 Health Care Finance, Budget and Managed Care
HC 636 Ambulatory Care Continuum

● Certificate in Hospitality and Casino Management
(670-000-178)
Faculty Advisor: Nancy L. Bush • (858) 642-8427 • nbush@nu.edu

Students may take the Certificate Program in Hospitality and Casino Management (6 courses; 27 quarter units). This coursework and the accompanying credits may be transferred to the BBA programs if all other requirements for admission to a degree program are met.

Certificate Prerequisite
(1 course; 4.5 quarter units)

HM 400 Principles of Hospitality and Casino Accounting

Certificate Requirements
(6 courses; 27 quarter units)

HM 400 Principles of Hospitality and Casino Accounting
HM 420 Hospitality Management
HM 430 Hospitality Information Management
HC 636 Ambulatory Care Continuum
HC 640 Global Trade Policy and Procedures
(Prerequisites: ECO 203 or BUS 500C)
School of Business and Information Management

HM 410 Hospitality and Gaming Law
HM 420 Hospitality and Casino Marketing  
(Prerequisite: MKT 402A)
HM 430 Principles of Hospitality and Casino Staffing
HM 440 Cultural Diversity and Hospitality Management
HM 450 Native American Tribal Community Development

● CERTIFICATE IN SPORTS MANAGEMENT  
(670-000-179)  
Faculty Advisor: Nancy L. Bush  •  (858) 642-8421  •  nbush@nu.edu

Students may take the Certificate Program in Sports Management (6 courses; 27 quarter units). This coursework and the accompanying credits may be transferred to the BBA programs if all other requirements for admission to a degree program are met.

Certificate Prerequisite  
(1 course; 4.5 quarter units)
MKT 402A Fundamentals

Certificate Requirements  
(6 courses; 27 quarter units)
SM 430 Introduction to Sports Management
SM 432 Principles of Leisure Services Management
SM 433 Sports Financial Management
SM 434 Principles and Problems of Coaching
SM 435 Legal Aspects of Sports Administration
SM 436 Sports Marketing and Promotions  
(Prerequisite: MKT 402A)
School of Education

Interim Dean, Sandra Spence Tracy
Ed.D., Educational Leadership
Vanderbilt University

134 Degrees Offered
135 Faculty
138 Graduate Degree Programs
146 Credential Programs, Internships
163 Special Education Internships
165 Certificate Programs

Defining the Future of Higher Education for Adult Learners
Degree Programs Offered

Graduate Degrees

- **Master of Arts**
  
  Field of Study:
  Teaching
  Areas of Specialization:
  Educational Technology
  Reading
  Special Education
  Best Practices and Preparation for National Board Certification
  Teaching and Learning

- **Master of Education**
  
  Field of Study:
  Crosscultural Teaching

- **Master of Science**
  
  Fields of Study:
  Educational Administration
  Educational Counseling
  Educational Technology
  School Psychology
  Special Education

California Credentials (Approved by the California Commission on Teacher Credentialing)

- Preliminary Multiple Subject Teaching Credential with BCLAD Emphasis Option
- Preliminary Single Subject Teaching Credential with BCLAD Emphasis Option
- Fifth Year Professional Clear Credential
- Preliminary Administrative Services Certificate
- Professional Administrative Services Credential
- Pupil Personnel Services, School Counseling Specialization Credential
- Pupil Personnel Services, School Psychology Specialization Credential
- Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities
- Professional Level II Education Specialist: Mild/Moderate Disabilities
- Professional Level II Education Specialist: Moderate/Severe Disabilities

**INTERNSHIPS**

Multiple/Single Subject Internships available in some locations
Education Specialist Internships available in some locations
Preliminary Administrative Services Internships available in some locations

Certificate Programs

- CLAD Multiple or Single Subject Certificate
- Educational Technology
- Teachers Using Technology

Special Partnerships

In addition to the regular credential and degree programs, the School of Education offers several special programs and partnerships, including:

- Materials Development Workshop
- Summer Intensive Programs
- School District Staff Development
- Certification Courses
- Continuing Education Classes
- Spanish for the Professional Educator

\* denotes program also offered or partially offered online.

Note: Not all online programs or courses are offered in entirety via Internet.

Note: Not all courses or programs listed in this catalog are available at every learning facility.

Various undergraduate minors are available in some degree programs.

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Mission Statement

The Mission of the School of Education is to prepare educators as lifelong learners, reflective practitioners, and ethical professionals. The mission is accomplished in a learning community through professional preparation programs, partnerships with schools, and educational research.

Professional Ethics

Students are expected to conduct themselves in a responsible manner that reflects ethics, honor, and good citizenship. They are also expected to abide by the regulations of the University. It is the students' responsibility to maintain academic honesty and integrity, and to manifest their commitment to the mission of the University through their conduct and behavior. Online students are bound to the same policies, rules, and regulations of the University.

The California Commission on Teacher Credentialing is charged by law with evaluation of the moral character and fitness of all persons who wish to teach or perform certified services in the public schools. Every person who is an applicant for, or who now holds, any credential, certificate, permit, or license authorizing service in California public schools is answerable to the CCTC and the Committee of Credentials for his or her fitness related conduct. California Laws and Rules Pertaining to the Discipline of Professional Credentials is available on the CCTC Web site at www.ctc.ca.gov.

Transfer Courses/Course Equivalency Information for Masters and Credential Programs

Students with coursework from another institution that applies toward a credential should use the online Pre-Approved Credential Coursework Equivalency form to submit a request for transfer of credit or waiver. This form is available at www.nu.edu/mynu.

If coursework from another institution is not listed on the Pre-Approved equivalency form, students should see a credential advisor, admissions advisor, or faculty member to submit an Open Equivalency form.

• National University reserves the right to accept up to a maximum of three courses in transfer.
• Course work must be completed within the past seven years.
• Course work must be at graduate level.
• Candidates must earn a grade of “B” or better in the course.
• The course work must cover all of the competencies contained in National University’s equivalent course.
• Course equivalency will not be granted for life experiences.
• Course equivalency for Teacher Education Credential – 2042 must be from an approved 2042 institution and meet all of National University’s course objectives.

MASTER OF ARTS IN TEACHING

(710-716)

Program Faculty Advisor: Dr. Gwen Stowers • (858) 642-8333
• gstowers@nu.edu
Regional Lead Faculty Advisors:
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Fresno • Dr. Gary Barton • (559) 256-4946 • gbarton@nu.edu
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The Master of Arts in Teaching is designed for students who want to enhance their teaching skills, obtain the intellectual and professional expertise that interrelates theory and practice and promotes lifelong learning and who are committed to being instructional leaders in the K-12 setting.

Course Sequence

The first course for students to enroll in the MAT degree program is EDT 612, Curriculum Design and Research Using Technology. This course outlines research processes to be followed as the student goes through the program.

With the exception of EDT 612 and MAT 640, all core courses may be completed in any sequence before enrolling in the area of specialization courses.

MAT 640, Applications of Research for the Art of Teaching, must be taken as the last course in the MAT program and may not be accelerated. During this capstone course, students will complete a written project that has been developed while taking the MAT courses.

Degree Requirements

(10 courses; 45 quarter units)

To receive a Master of Arts in Teaching, students must complete 45 quarter units of graduate work (49.5 for those with a Best Practices specialization). A total of 4.5 quarter units of graduate credit may be granted for equivalent graduate work completed, as it applies to this degree and if the units were not used in earning another advanced degree.

Those holding National Board Certification qualify for a one-course equivalency for MAT 641, MAT 642, MAT 643, or MAT 644.

Note: Students must have access to Microsoft Office on either a PC or Mac platform.

Program Core Requirements

(6 courses; 27 quarter units)

EDT 612 Curriculum Design and Research Using Technology
(Students must have access to Microsoft Office on either a PC or Mac platform)
MAT 641 Cultural Democracy: Contemporary, Local and Global Issues
MAT 642 Program Design: Curriculum Theory, Design and Assessment
MAT 643 Models of Teaching, Theories, Applications and Practice
MAT 644 Foundations and Principles of Curriculum
MAT 640 Applications of Research for the Art of Teaching
(To be taken as the last course in the MAT program)
▲ Best Practices Specialization and Preparation for National Board Certification
(744)

Note: Best Practices enrollment is for students who enroll as part of a School District’s Best Practices Program, currently offered in Sacramento only.

(5 courses; 22.5 quarter units)

This Area of Specialization is an onsite program entered into with a specific school district (currently available in Sacramento only).

MAT 670 The Theory of Research-Based Best Practice Instruction
MAT 671 Applied Best Practice Strategies in Classroom Instruction
MAT 672 Integrating Multimedia-Interactive Technology in Best Practice Instruction
MAT 673 Differentiated Instruction and Target Teaching
MAT 674 The Theory of Research-Based Practice Instruction

▲ Educational Technology Specialization
(745)

(4 courses; 18 quarter units)

EDT 600 Evaluating and Researching Information on the Internet
EDT 604 The Effect of Technology on Teaching Methodology
EDT 620 Instructional Media and Technology in the K-12 Classroom
EDT 630 Using the Internet to Enhance K-12 Learning Environments

▲ Reading Specialization
(740)

(4 courses; 18 quarter units)

MAT 645 Developing Fluency in Reading
MAT 646 Comprehension Strategies and Procedures
MAT 647A Language Arts Assessment and Instruction I
(Prerequisites: MAT 645, MAT 646)
MAT 647B Language Arts Assessment and Instruction II
(Prerequisites: MAT 645, MAT 646, MAT 647A)

▲ Special Education Specialization
(747)

(5 courses; 18 quarter units)

This area of specialization was primarily designed for Level II Education Specialist majors. Other interested students should contact the Chair of Special Education.

EXC 655A Professional Induction Seminar (3 quarter units)
EXC 656 Best Practices for Special Needs Students
EXC 657 Community Resources and Transition
EXC 658 Advanced Specialization in Mild/Moderate Disabilities or
EXC 659 Advanced Specialization in Moderate/Severe Disabilities
EXC 655B Exit Seminar (1.5 quarter units)

▲ Teaching and Learning Specialization
(746)

(4 courses; 18 quarter units)

Requirements include any four courses from the areas of specialization listed above.

TED 665 Cognition, Language and Culture
TED 666 The Cultural Foundations of Linguistics
TED 667 Diversity and Change: A Critical Pedagogy
TED 668 Survey of Children’s Multicultural Literature

■ MASTER OF EDUCATION (M.ED.) IN CROSS-CULTURAL TEACHING WITH A SINGLE OR MULTIPLE SUBJECT CREDENTIAL WITH BILINGUAL EMPHASIS OPTION
(750-710)

Program Faculty Advisor: Dr. Gwen Stowers • (858) 642-8333 • gstowners@nu.edu

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(TED 88.5 quarter units, BTE 93 quarter units)

The Master of Education in Cross-Cultural Teaching is designed for students who are committed to being instructional leaders in the K-12 setting. Courses for this degree meet the California Commission on Teacher Credentialing requirements for a preliminary credential as well as meet requirements for a master’s degree that interrelates theory and practice and promotes lifelong learning. The program, which has an internship option, is intended for students who want to obtain a preliminary credential and master’s degree at the same time.

Students seeking to complete only a master’s degree should enroll in the Master of Arts in Teaching. Students who are pursuing a credential and who want to make a program change to the M.Ed. in Cross-Cultural Teaching may do so under these conditions:

- The student must make the program change before beginning student teaching,
- The student must complete a master’s intent course (TED 665, 666, 667, 668) prior to student teaching,
- The student must pass the subject matter competency exam before enrolling in student teaching and bilingual emphasis students must pass language proficiency examinations.

Special Financial-Aid Requirements for Master’s of Education

In order to ensure appropriate academic intent and appropriate funding, financial-aid requests for students enrolled in a Master’s of Education with a credential will be processed for aid at the fifth-year credential level until successful completion of a course applicable only at the graduate level, commonly referred to by the University as a master’s intent course. These courses are TED 665, 666, 667, 668, and MAT 640. Once one of these has been successfully completed, the Financial Aid Department will, if the student’s enrollment period permits, process a supplemental loan for which the student will receive graduate-level funding up to the annual academic-year limit.
School of Education

Prerequisites
(3 courses; 13.5 quarter units)
HED 502 Health Education Across the Curriculum
EXC 625 Exceptional Children in the Classroom
EDT 608 Computer Based Technology in the Classroom

Note: Students must have access to Microsoft Office on either a PC or Mac platform

Degree Requirements
To receive a Master of Education in Cross-Cultural Teaching, students must complete at least 57 quarter units of graduate work, 48 of which must be taken in residence at National University. Students enrolled in the joint degree-credential program will not be awarded the master’s degree until they complete all graduate and credential course work, including student teaching.

Program Core Requirements
(4 courses; 18 quarter units TED or 5 courses; 22.5 quarter units BTE)

Recommended Sequence:
TED 615 Foundations of Education
TED 605 The Diverse Classroom
TED 611 Educational Psychology
BTE 612 History and Culture of Latinos (taught in language of emphasis) (Bilingual Emphasis students only)
MAT 640 Applications of Research for the Art of Teaching (must be taken as the last course in the program)

Methods Courses
(18 quarter units)

(Prerequisites: HED 502, EXC 625, EDT 608, TED 615, TED 605, TED 611, TED 621A or TED 623 and BTE 612 for BCLAD students)

Multiple Subject
(363/365)
TED 621A Language Development Methods for the Elementary School
(Prerequisites: TED 615 or BTE 612 for BTE students only)
TED/BTE 621B Reading and Language Arts Methods for the Elementary School
(Prerequisite: TED 615 and TED 621A)
TED/BTE 622A Curriculum and Instruction I: History, Social Studies, Physical Education and Visual and Performing Arts
(Prerequisite: TED 615 and TED 621A)
TED/BTE 622B Curriculum and Instruction II: Mathematics and Science
(Prerequisite: TED 615 and TED 621A)

or

Single Subject
(362/364)
TED 623 Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)
TED/BTE 625A Curriculum Development for Secondary and Middle Schools
(Prerequisite: TED 615 and TED 623)

TED/BTE 625B Instruction and Classroom Management for Secondary and Middle Schools
(Prerequisites: TED 615 and TED 625A or BTE625A and TED 623)
TED/BTE 624 Content Area Literacy for the Secondary and Middle Schools
(Prerequisites: TED 615 and TED 623)

Student Teaching
One Master’s intent course must be taken prior to student teaching. (The student teaching courses are required for the preliminary credential, but do not grant graduate credit, except for TED 629, which carries 3.0 quarter units of graduate credit.)

(21 quarter units)

(Prerequisites: HED 502, EXC 625, EDT 608, TED 615, TED 605, TED 611 and TED 621A, TED 621B, TED 622A, TED 622B; or TED 623, TED 624, TED 625A, TED 625B)

TED 629 Student Teaching Seminar*
(3.0 quarter units)
BTE/TED 630A Student Teaching
BTE/TED 630B Student Teaching
BTE/TED 630C Student Teaching
BTE/TED 630D Student Teaching

*TED 629 Student Teaching Seminar must be taken concurrently with TED 630A-D or BTE 630A-D

Note: Students must have met subject matter competency through passage of exam or a letter of completion from an accredited university prior to student teaching.

Note: Courses TED 615, TED 605, TED 611, BTE 612, TED 621A, BTE 621B, TED 621B, TED 622A, TED 622B, BTE 622B, TED 623, TED 624, TED 625A, TED 625B, BTE 625B all require four hours of fieldwork in K-12 schools.

Note: Candidates must obtain a certificate of clearance from the California Commission of Teacher Certification prior to beginning fieldwork in K-12 schools.

Candidates must meet all State of California requirements for the multiple- and single-subject credential to be recommended to the Commission on Teacher Credentialing. (See Credential Program Requirements)

Teacher Education Emphasis
(4 courses; 18 quarter units)
TED 665 Cognition, Language and Culture
TED 666 The Cultural Foundation of Linguistics
TED 667 Diversity and Change: A Critical Pedagogy
TED 668 Survey of Multicultural Literature

Note: Candidates must complete all required coursework in the Teacher Education Emphasis before beginning the student teaching component of the program.
This program is designed for students who are committed to improving education and who are interested in advancing their careers by becoming school site or district administrators. It can be completed with or without a credential option for those pursuing a career in the nonpublic education sector.

**Degree Requirements**
(13 courses; 58.5 quarter units)

To receive a Master of Science in Educational Administration, students must complete at least 58.5 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and if the units were not used in earning another advanced degree.

**Required Course Work**
(13 courses; 58.5 quarter units)

- ED 618A Legal Aspects of Education*
- ED 619A Financial Aspects of Education*
- ED 614A Theories, Assessment and Application of Educational Leadership*
- ED 615A School-Community Relations in a Diverse Society*
- ED 616A Management of Educational Personnel: Social and Political Issues*
- ED 620A Seminar in Educational Administration*
  (At least two other credential courses, not including ED 620B or ED 620C and ED 670C, must be completed before taking this course.)
- ED 624A Supervision of Instruction: Curricula Evaluation and Staff Development*
- ED 620B Preliminary Administrative Field Experience*
  (May be taken concurrently with another class or scheduled in an open month. This course takes 3-12 months to complete. It must be completed within 12 months of the course being scheduled. Students must complete three courses in the credential sequence — ED 618A, ED 619A, ED 614A, ED 615A, ED 616A, ED 620A, ED 670C, ED 624A — before taking this course. This course must be completed in residence.)
  or
- ED 620C Field Experience (non-credential) This course must be completed in residence.
- ED 670C Leadership Technology and Its Application*
- IL 680 Research in Education
- IL 617 Philosophy, Theory and Governance of Educational Leadership
- IL 603 Curriculum Alignment and Evaluation
- ED 694 Thesis
  (Note: Because this course is scheduled for twelve months, it may happen that a student’s enrollment status will fall below half-time, which may affect the deferment of repayment on a student loan and eligibility for further aid.)

* Required for the Preliminary Administrative Services Certificate/Credential. This credential is required for most administrative positions in California, such as public/district principals, assistant principals, educational directors and assistant superintendents in California.

The Department of Pupil Personnel Services–School Counseling offers a graduate degree leading to the Master of Science in Educational Counseling. This program prepares students for the position of school counselor. Graduates of this program generally seek employment as school counselors in K-12 school districts only and must hold a PPSC credential for public school employment.

Upon entry into the degree program, all students must:

- Provide official transcripts from all colleges/universities attended and place on file at National University.
- Proof of passage of CBEST
- Possess an appropriate master’s degree in educational counseling or psychology if entering the credential ONLY program.
- Begin attending CED 604, (Orientation and Field Experience in PPS). This is a one-month course that consists of four (4) classes. Students may take prerequisites while taking CED 604.
- Students will receive a credential packet, and must complete a “candidate statement” that is reviewed and signed by the faculty advisor for admission into the program.
- Students must return their credential packet to the credential advisor by the end of the course otherwise students will receive an “I” for CED 604.

See a credential advisor for specific information regarding any of these requirements.

**Scheduling**

All PPSC students will be assigned a faculty advisor. All students are expected to meet with their assigned faculty advisor upon admission into the program and throughout the program, before starting their fieldwork and after completion of coursework and fieldwork hours.

All courses, with the exception of fieldwork, are scheduled by an admissions advisor. CED 610, CED 611, CED 601A and CED 601B (counseling specialization) should be scheduled sequentially.
School of Education

Degree Requirements
(17 courses; 72 quarter units)

To receive a Master of Science in Educational Counseling, students must complete at least 72 quarter units of graduate work. All fieldwork must be taken at National University. All course work must be completed within seven years with a 3.0 GPA. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and if the units were not used in earning another advanced degree.

Note: Complete a minimum of 31 quarter units in residence.

Program Prerequisites

It is strongly recommended, but not required, that applicants have one year of related professional experience working with school-age children, preferably in a public school setting.

Program Prerequisites
(1 courses; 4.5 quarter units)

MTH 210 Introduction to Probability and Statistics
(Prerequisite: Placement Evaluation)

Students will meet with a faculty advisor for evaluation of prior coursework to meet program prerequisites. Course equivalence cannot be granted for life experiences.

Required Course Work
(14 courses; 58.5 quarter units)

CED 604 Orientation and Field Experience in PPS
(1.5 quarter units)
(Prerequisite for all CED courses beyond the first two)

TED 611 Educational Psychology
CED 600 Child and Adolescent Development
CED 602 Current Social Concerns
CED 606 School Programs and Services
IL 680 Research in Education
CED 610 Counseling Theory and Practice
CED 611 Group Counseling
(Prerequisite: CED 610 with a B or better)

CED 601A Multicultural Counseling Skills
(Prerequisite: CED 611 with a B or better)
CED 601B Consultation in School Counseling and Psychology
(Prerequisite: CED 601A with a B or better)

CED 612 Career Development
CED 613 Psycho-Educational Assessment
CED 614 Legal, Ethical and Professional Issues
CED 620 Professional Fieldwork Seminar in School Counseling
(3 quarter units) (Concurrent with fieldwork)

Fieldwork
(3 courses; 13.5 quarter units)

(Must be completed in residence)

Each 4.5 units of fieldwork requires at least 2 months and a minimum of 200 direct service hours. A minimum of 600 clock hours is required. Students should refer to the PPS Program Handbook for specific information about the pre-fieldwork and fieldwork.

Students must attend CED 620 sessions concurrently with their fieldwork. Students may take other counseling coursework concurrently with fieldwork.

Students can select three courses from the following in any combination that includes at least two levels:

CED 616A Counseling Fieldwork - Elementary School I (200 hours)
CED 616B Counseling Fieldwork - Elementary School II (200 hours)
CED 617A Counseling Fieldwork - Middle School I (200 hours)
CED 617B Counseling Fieldwork - Middle School II (200 hours)
CED 618A Counseling Fieldwork - High School I (200 hours)
CED 618B Counseling Fieldwork - High School II (200 hours)

Students may receive only the MS degree in Educational Counseling (i.e., with no recommendation for the credential) if they complete four approved electives in lieu of fieldwork and the corresponding prerequisites.

Exit Requirements

In order to receive a degree and/or a PPSC credential, students must:

- Verify passing CBEST
- Pass comprehensive examination or pass ETS Praxis exam school counseling
- Complete exit survey with University Supervisor
- Return portfolio and fieldwork plan to their University Supervisor
- Attend exit appointment with credential advisor to receive final clearance and credential documents
- Have a zero account balance

Fieldwork Prerequisites

Before beginning fieldwork, students must:
- Have a Certificate of Clearance or Teaching Credential
- Complete all of the screening and admission requirements
- Have passed the CBEST
- Complete CED 604 plus seven additional CED courses
- Complete 100 hours of approved, logged pre-fieldwork.
- Submit a Fieldwork Application to the Fieldwork Coordinator and be assigned a University Fieldwork Supervisor.
Microcomputer and interactive technologies are affecting educational and instructional environments in many positive ways. Knowledgeable educators are learning to integrate technology into the curriculum to enhance student learning outcomes. This program is designed to acquaint K-12 teachers, administrators and instructional leaders with the many emerging technologies available today and to equip them with the pedagogical training necessary to becoming educational technology leaders.

**Degree Requirements**

(12 courses; 54 quarter units)

To receive a Master of Science in Educational Technology, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and provided the units were not used in earning another advanced degree.

**Program Requirements**

(9 courses; 40.5 quarter units) (Students must have access to Microsoft Office on either a PC or Mac platform)

- **EDT 602** Human Learning and Individual Differences
- **EDT 606** Instructional Systems Design
- **EDT 608** Computer-Based Technology in the Classroom
- **EDT 610** Technology Supported Global Learning
  (Prerequisite: EDT 608)
- **EDT 655** Issues and Trends in Educational Technology
  (Prerequisite: EDT 608)
- **EDT 660** Multimedia and Interactive Technologies
  (Prerequisite: EDT 608)
- **EDT 650** Leadership in Presentation Technologies
- **IL 680** Research in Education
- **EDT 694** Thesis
  (Must be taken as the last course in the program)

(Note: Because this course is scheduled for twelve months, it may happen that a student’s enrollment status will fall below half-time, which may affect the deferment of repayment on a student loan and eligibility for further aid.)

**Electives**

(3 courses; 13.5 quarter units)

Students must complete a minimum of 13.5 quarter elective units of 600-level course work to earn the Master of Science in Educational Technology. The electives can be any of the following:

- **EDT 640** Network System Design Funding Strategies
- **EDT 661** Desktop Publishing
- **EDT 662** Enhancing Human Performance Through Technology
- Any 600-level course offered in the School of Education
- Any 600-level course with a CS, CST, IS, or IT prefix offered in the School of Business and Technology or the School of Arts and Sciences, with the permission of the Department of Special Education and Technology.

The Department of Pupil Personnel Services–School Psychology offers a graduate degree leading to the Master of Science in School Psychology. This program prepares students for the position of school psychologist. Graduates of this program generally seek employment as school psychologists in K-12 school districts and must hold a PPSP credential for public school employment.

Upon entry into the degree program, all students need to have their previous work evaluated by the PPSPs lead faculty advisor.

Students who do not maintain a 3.0 GPA may be evaluated by the faculty and may be required to do remedial work and/or be required to repeat the course work at their own expense before being allowed to continue in the program. Grades of “D”, or “F” are not accepted.

Students who are absent for a period of 12 months or more must re-enroll and re-matriculate under a new catalog.

**Admission Requirements**

Students seeking admission to the Graduate School must possess a completed bachelor’s degree, with a minimum of 2.5 GPA from a regionally accredited university. Official transcripts from all colleges/universities attended must be on file at National University.

Students who do not maintain a 3.0 GPA may be evaluated by the faculty and may be required to do remedial work and/or be required to repeat the course work at their own expense before being allowed to continue in the program. Grades of “D”, or “F” are not accepted.

Students who are absent for a period of 12 months or more must re-enroll and re-matriculate under a new catalog.

To be admitted to the PPSP program, students must:
- Provide official transcripts from all colleges/universities attended and place on file at National University.
- Provide proof of passage of CBEST.
- Possess an appropriate master’s degree in educational counseling or psychology if entering the credential ONLY program.
- Begin attending CED 604 Orientation and Field Experience in PPS. This is a one-month course that consists of four (4) classes.
- Receive a credential packet and complete a “candidate statement” that is reviewed and signed by the faculty.
- Complete a faculty intake interview prior to the end of the course. Faculty advisors will determine admission into the program.
- Return their credential packet to the credential advisor by the end of the course, otherwise students will receive an “I” for CED 604.

See a credential advisor for specific information regarding any of these requirements.

**Program Advisement**

All PPSP students will be assigned a faculty advisor. All students are expected to meet with their assigned faculty advisor upon admission into the program and throughout the program, before starting their fieldwork and after completion of coursework and fieldwork hours.

All course work must be completed within seven years with a 3.0 GPA.
Students will meet with a faculty advisor for evaluation of prior coursework to meet program prerequisites.

Degree Requirements
(27 courses; 117 quarter units)

To receive a Master of Science in School Psychology, students must complete at least 94.5 quarter units of graduate work. A total of three (3) graduate courses (13.5 quarter units) may be transferred for equivalent graduate work completed at another institution, as it applies to this degree and if the units were not used in earning another advanced degree. Students must complete all course work with a GPA of 3.0 or better within seven years. Any courses taken more than seven (7) years ago must be repeated.

Note: Complete a minimum of 45 quarter units in residence.

Program Prerequisites
(3 courses; 13.5 quarter units)

It is strongly recommended, but not required, that applicants have one year of related professional experience working with school-age children, preferably in a public school setting.

MTH 210 Introduction to Probability and Statistics
(Prerequisite: Placement Evaluation)

PSY 301 Child and Adolescent Development

PSY 430 Introduction to Psychopathology

Required Course Work
(21 courses; 90 quarter units)

CED 604 Orientation and Field Experience in PPS
(1.5 quarter units)

TED 611 Educational Psychology

CED 600 Child and Adolescent Development

CED 602 Current Social Concerns

CED 606 School Programs and Services

IL 680 Research in Education

CED 610 Counseling Theory and Practice

CED 611 Group Counseling

(CED 610 with a B or better)

(CED 601A with a B or better)

(CED 601B with a B or better)

(CED 613 with a B or better)

(CED 614 with a B or better)

EXC 625 Exceptional Children in the Classroom

EXC 620 Positive Behavior Support

PED 680 Problems and Issues in School Psychology**

PED 681 Educational and Psychological Assessment of the Child**

(PED 604, 613 and 7 additional CED courses)

PED 682 Advanced Individual Assessment**

(PED 681 with a B or better)

PED 683 Program Development and Evaluation

PED 684A Eligibility Assessment and Low-Incidence Populations

(PED 681 and PED 682 with a B or better)

PED 684B Alternate Assessment**

(PED 681 and PED 682 with a B or better)

PED 685 Fieldwork Seminar in School Psychology

(3 quarter units)

** Fieldwork Prerequisites

Pre-Fieldwork
(1 course; 4.5 quarter units)

PED 678 Practicum in School Psychology

Students are required to complete 450 hours of pre-fieldwork (practicum) prior to starting their fieldwork. Approximately 100 hours are embedded in the CED course work. The remaining 350 hours are completed by taking PED 678 Practicum in School Psychology (4.5 quarter units).

Fieldwork Prerequisites

Before beginning fieldwork, students must:
• Have a Certificate of Clearance of Teaching Credential
• Have passed the CBEST
• Complete all PED courses (except PED 685) and CED 604 plus nine additional CED courses
• Complete 450 hours of approved, logged pre-fieldwork (practicum) hours.
• Submit a Fieldwork Application to the Fieldwork Coordinator and be assigned a University Fieldwork Supervisor.

Fieldwork
(4 courses; 18 quarter units)

(Must be completed in residence)

Each 4.5 units of fieldwork requires at least 2 months and a minimum of 300 direct service hours. A minimum of 1200 clock hours is required. Students should refer to the PPS Program Handbook for specific information about the pre-fieldwork and fieldwork requirements.

Students must attend PED 685 concurrently with their fieldwork. Students may take other course work concurrently with the fieldwork.

Students can select four courses from the following in any combination that includes at least two levels:

School Psychology

PED 687A/B/C Fieldwork Elementary I/II/III (300 hours)

PED 688A/B/C Fieldwork Middle I/II/III (300 hours)

PED 689A/B/C Fieldwork High I/II/III (300 hours)

PED 679A/B Fieldwork Community Setting I/II (300 hours)

Students must complete a minimum of 1200 hours of fieldwork either working full-time for two consecutive semesters or one-half time for four consecutive semesters (or equivalent).

Students may receive only the MS degree in School Psychology (i.e., with no recommendation for the credential) if they complete five approved electives in lieu of field work and their corresponding prerequisites.

Exit Requirements

In order to receive a degree and/or a PPSP credential, students must:
• Verify passing CBEST
• Pass the comprehensive examination or pass ETS Praxis exam
• Complete the exit survey with their University Supervisor
• Return portfolio and fieldwork plan to their University Supervisor
• Make and attend exit appointment with credential advisor to receive final clearance and credential documents
• Have a zero account balance
The Master of Science in Special Education is designed for educators and other professionals who want to become knowledgeable about educational learning problems and teaching strategies to enhance student performance. To receive a Master of Science in Special Education, students must complete at least 66 quarter units of graduate work.

A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree and if the units were not used in earning another advanced degree. Students enrolled in the joint degree credential program are not awarded the master’s degree until they have completed all graduate and credential course work, including student teaching. Course equivalence cannot be granted for life experience. Although many of the following courses are available online, EXC 630 and certain field experiences must be taken at a campus site.

**Degree Requirements**
(18 courses; 66 quarter units)

**Generic Core Program Requirements**
(9 courses; 34.5 quarter units)

Field experience courses must be taken at the beginning of the program and may be taken concurrently with other courses.

EXC 602A Field Experience: Special Education (3 quarter units)
EXC 602B Field Experience: Inclusive Settings (3 quarter units)
EXC 602C Field Experience Seminar (1.5 quarter unit)
EXC 604 Exceptionality and Diversity in the Classroom
TED 611 Educational Psychology
TED 621A Language Development Methods for the Elementary School (Prerequisite: Masters only students are exempt from TED 615)
or
TED 623 Language Development Methods for Secondary and Middle Schools (Prerequisite: Masters only students are exempt from TED 615)
EXC 620 Positive Behavior Support
EXC 630 Assessment and Instructional Planning for Special-Needs Students
EXC 650 Collaboration and Consultation for Special Education
Generic Core Exam

**Advanced Specialist Requirements**
(8 courses; 27 quarter units)

Note: Students must have met subject matter competency through the passage of the exam or letter of completion from an accredited university before the candidate can register for Advanced Specialization courses if the candidate is pursuing a teaching credential.

EXC 644 Reading and Language Arts Methods for Special Education (one night per week over two months)
EXC 644A Field Study: Reading and Language Arts Methods for Special Education (1.5 quarter unit)
EXC 660 Instruction of Learners with Mild/Moderate Disabilities
EXC 660A Field Study: Instruction of Learners with Mild/Moderate Disabilities (1.5 quarter unit)
or
EXC 665 Instruction of Learners with Moderate/Severe Disabilities
EXC 665A Field Study: Instruction of Learners with Moderate/Severe Disabilities (1.5 quarter unit)

EXC 604 Exceptionality and Diversity in the Classroom
TED 611 Educational Psychology
TED 621A Language Development Methods for the Elementary School (Prerequisite: Masters only students are exempt from TED 615)
or
TED 623 Language Development Methods for Secondary and Middle Schools (Prerequisite: Masters only students are exempt from TED 615)
EXC 620 Positive Behavior Support
EXC 630 Assessment and Instructional Planning for Special-Needs Students
EXC 650 Collaboration and Consultation for Special Education
Generic Core Exam

**Program Elective**
(1 course; 4.5 quarter units)

To complete the Special Education Program, students can select one elective from the SOE graduate course offerings approved by the Special Education faculty. Students who plan to teach at the secondary level are encouraged to take TED 624.

Students seeking the Preliminary Level I Education Specialist: Mild/Moderate Disabilities credential must take:

EXC 685A Student Teaching - Mild/Moderate Disabilities
EXC 685B Student Teaching - Mild/Moderate Disabilities

Students seeking the Preliminary Level I Education Specialist: Moderate/Severe Disabilities credential must take:

EXC 690A Student Teaching - Moderate/Severe Disabilities
EXC 690B Student Teaching - Moderate/Severe Disabilities

EXC 685A, EXC 685B, EXC 690A and EXC 690B do not fulfill elective requirements.
Credential Programs

Credential Information Applicable to all Programs

Certain credential programs may require enrollment into an electronic portfolio. Please see your credential advisor for further information.

Admission Requirements

Students seeking a California Credential at National University must possess a conferred or completed bachelor’s degree, with a minimum 2.5 GPA from a regionally accredited U.S. university.

Students with international degrees who do not hold a U.S.-approved bachelor’s degree must receive an evaluation from a CCTC-approved international evaluation agency before being admitted to the University and starting the first course.

Students seeking entry into the Multiple or Single-Subject Teacher Education or Special Education Credential program who hold a California Emergency Teaching Permit are reminded that National University cannot issue a CL-469 if the student has not taken nine quarter units between issuance and expiration dates of the emergency permit.

Admission Process

In addition to the admission requirements listed in the “General Admission Procedures” section of this catalog, applicants to all of National University’s credential programs must proceed through the following admissions procedure:

Stage 1: Students meet with an admission advisor and complete an admissions packet. Students who meet the listed criteria are admitted on a “provisional” basis with an estimated program of study.

Graduate students, see “Graduate Admission Standards.”

Stage 2: All credential students must attend a mandatory faculty/credential advisement seminar and complete a candidate statement within 30 days of starting their first course or pre-requisite course. Candidate statement must be reviewed and signed by the faculty advisor for admission to the credential program.

Stage 3: Students must complete the credential packet and return this to the credential advisor within 30 days to avoid matriculation or scheduling errors. Candidates enrolled in both master’s degree and credential programs are matriculated after the credential packet is returned to the Credential advisor.

Students are not eligible for financial aid until the matriculation is complete.

Students transferring from a teacher education program at another university must provide a letter of good standing. A maximum of 13.5 quarter units may be accepted for unit credit and/or course content.

Students must obtain a Certificate of Clearance from the California Commission of Teacher Certification before entering schools for fieldwork.

Program Advisement

All students will be assigned a faculty advisor at the mandatory advisement orientation that is required for admission to the School of Education. Students are expected to meet periodically with the faculty advisor and credential advisor throughout the program.

Residency Requirements

Credential candidates must complete a minimum of 31 quarter units in residence at National University to be recommended for a credential to the Commission on Teacher Credentialing. Courses taken online are considered to be in-residence.

Does not apply to candidates for the following programs:

- CLAD certificate.
- Level II Special Education.
- FPS Credential with School Psychology authorization.
- An additional credential if one is previously held.

All credential programs must be completed with a GPA of 3.0 (“D” and “F” grades are not accepted).

Students who are absent for a period of 12 months or more must re-enroll and re-matriculate under a new catalog.

All credential courses are valid for seven years.

The Student Agreement

To ensure that graduates of National University’s teaching and services credential programs are able to meet the legal requirements of the California Commission on Teacher Credentialing (CCTC), all applicants for admission to education credential programs must enter into a student agreement. A copy of the student agreement is contained in the admissions packet that is available from a credential advisor in the advisement orientation meeting.

The student agreement gives National University the right to suspend or terminate the student’s participation in the credential program upon a showing that the student has:

- committed acts or engaged in conduct that could constitute grounds for denial of a credential;
- failed to demonstrate the requisite skills and qualifications to satisfy the requirements for a credential; or
- demonstrated other qualities or behaviors enumerated in the student agreement inconsistent with National University’s recommendation of the student for an education credential. The student agreement also authorizes National University to release to the Commission all pertinent information pertaining to the student’s qualification or fitness for a credential.

Student Assistance, Notice of Need to Improve, and Dismissal from School of Education Programs

National University is committed to maintaining quality standards throughout its credential and masters programs and to graduating competent professional educators. As required by the California Commission on Teacher Credentialing (CCTC), National University identifies and assists students who need special assistance, and retains in its programs only those students who are suited for entry to or advancement in the education profession. The CCTC is charged by the State with evaluating the moral character and fitness of all persons who wish to teach or perform certified services in California public schools. Every person who is an applicant for, or who now holds, any credential, certificate, permit, or license authorizing service in California public schools is answerable to the CCTC and The Committee on Credentials for his or her fitness-related conduct. California’s Laws and Rules Pertaining to the Discipline of Professional Certified Personnel (2002), available on the CCTC Web site at www.ctc.ca.gov, address legal, ethical, and behavioral standards to which all such persons must adhere.

If a student is identified as being deficient or needing assistance to meet program standards at any point during his or her program, the...
All initial multiple-subject and single-subject credentials are granted in English. The Bilingual Emphasis (BCLAD) credential authorizes teachers to teach academic subjects to English Learners in their primary language and in English.

All initial multiple-subject and single-subject credentials are granted as preliminary credentials under new Commission SB 2042 standards.

1) Candidates for the multiple-subject and single-subject credentials who complete their teacher preparation through a Commission-approved program in California must be recommended for the credential by their college or university. Teachers who completed their professional preparation outside of California must apply directly to the commission for their initial credentials.

2) Candidates with six or more years of accredited private school experience may apply directly to the California Commission on Teacher Credentialing (CTCT) under SB 57 by submitting application form 41-4, fingerprint clearance materials, transcripts, other requested materials and current applicable fees. See CTCT Web site at www.ctc.ca.gov/credentialinfo/credinfo.html or call 888-921-2682 (toll free).

Candidates with three or more years of accredited private school experience may be able to waive student teaching. See a credential advisor for details.

3) In order to be recommended for a California Preliminary Teaching Credential by National University, students must have:

- Proof of a conferred bachelor’s degree from a regionally accredited institution of higher education (IHE) or an international degree of U.S. equivalence
- Successful completion of the NU admission process
- Successful completion of the teacher education program within seven years.
- Proof of passing with grade of “C” or better course work or an examination covering the U.S. Constitution
- Official transcripts from all colleges/universities attended on file at National University
- Proof of passage of CBEST (highly recommended prior to admission. Must be taken at first available date after enrollment)
- Proof of meeting the subject matter competency requirement by passage of the appropriate subject matter exam or with a letter from a regionally accredited CCTC-approved program verifying completion of the appropriate subject matter program.
- Completion of a minimum of 31.5 TED or 36 BTE quarter units in residence
- Maintenance of a GPA of 3.0 in credential course work, (“D” and “F” grades are not accepted).
- Successful completion of the exit process, including portfolio requirements
- Proof of passing the Reading Instruction Competence Assessment (RICA). (Multiple Subject Teacher Education.)

Note: A letter of completion is issued from San Diego following receipt of all documents in San Diego.

### PRELIMINARY MULTIPLE-SUBJECT TEACHING CREDENTIAL PROGRAM WITH BILINGUAL EMPHASIS OPTION

(780-363/365)
(15 courses; 66 quarter units TED)
(16 courses; 70.5 quarter units BTE)

A preliminary multiple-subject credential is valid for a maximum of five years. During this five-year period, students must complete the induction requirements for a clear credential. The multiple-subject credential enables the candidate to teach in a self-contained classroom, typically at the elementary level. Students should see “Admission to Credential Programs” for specific admission information.
School of Education

Admission Requirements:

Candidates requesting to be admitted for Teacher Education must follow the steps listed under Admission Process for all Credential Students.

Attendance is required at the mandatory Faculty/Credential Advisement (NU1) orientation in order to be admitted to the Teacher Education Credential Program; this must be done within 30 days of enrollment in the first course or prerequisite.

The candidate statement must be completed, reviewed, and signed by the faculty advisor. Candidates must complete the Credential packet and return it to the credential advisor within 30 days.

Highly Recommended Before Admission:

- A passing score on CBEST (must be completed prior to student teaching).
- Proof of having met subject matter competence requirement through a passing score on the approved exam. (Must be completed prior to student teaching.)
- With the exception of student teaching (TED 630A, TED 630B, TED 630C, TED 630D), all courses are scheduled by an admission advisor. Student teaching is scheduled by a placement coordinator.

Note: All TED courses include a four hour field experience component that requires students to complete activities in K-12 schools. A Certificate of Clearance is necessary prior to field activities in the schools.

Prerequisites to the Program

(3 courses; 13.5 quarter units)

HED 502 Health Education Across the Curriculum
EXC 625 Exceptional Children in the Classroom
EDT 608 Computer Based Technology in the Classroom

Note: Students must have access to Microsoft Office on either a PC or Mac platform.

Recommended Sequence

(7 courses; 31.5 quarter units)

TED 615 Foundations of Education
TED 605 The Diverse Classroom
TED 611 Educational Psychology
TED 621A Language Development Methods for the Elementary School
(Prerequisite: TED 615)
TED 621B Reading and Language Arts Methods for the Elementary School
(Prerequisites: TED 615 and TED 621A)
TED 622A Curriculum and Instruction I: History, Social Science, Physical Education, Visual and Performing Arts
(Prerequisites: TED 615 and TED 621A)
TED 622B Curriculum and Instruction II: Mathematics and Science
(Prerequisites: TED 615 and TED 621A)

All TED courses include a four hour field experience component which requires students to complete activities in K-12 schools.

Student Teaching

(5 courses; 21 quarter units)

(Prerequisites: HED 502, EXC 625, EDT 608, TED 615, TED 605, TED 611, TED 621A, TED 621B, TED 622A and TED 622B with a 3.0 GPA)

- Grades of “D” or “F” not accepted
- Prior to student teaching, students must pass the CBEST and meet Subject Matter Competence by passing the approved subject matter exam.
- Prior to student teaching, students must have a zero account balance.

TED 629 Student Teaching Seminar*
(3.0 quarter units)
TED 630A Student Teaching
TED 630B Student Teaching
TED 630C Student Teaching
TED 630D Student Teaching

* TED 629 must be taken concurrently with TED 630A-D.

Students must pass Reading Instruction Competency Assessment (RICA) before being recommended to the CCTC for a Multiple Subject credential.

Accelerated Credential Program

Students may be eligible to apply to accelerate their credential program by taking designated courses during student teaching. Eligible candidates must meet minimum qualifications for accelerated studies and will be restricted to the provisions outlined in the Policies and Procedures section. Students approved to accelerate their studies will be limited to register for two courses concurrently while student teaching.

Bilingual Emphasis (BTE)

(16 courses; 70.5 quarter units)

Prerequisites to the Program

(3 courses; 13.5 quarter units)

HED 502 Health Education Across the Curriculum
EXC 625 Exceptional Children in the Classroom
EDT 608 Computer Based Technology in the Classroom

Note: Students must have access to Microsoft Office on either a PC or Mac platform.

Recommended Sequence

(8 courses; 36 quarter units)

BTE 612 History and Culture of Latinos in the U.S. (taught in the language of emphasis)
TED 615 Foundations of Education
TED 605 The Diverse Classroom
TED 611 Educational Psychology
TED 621A Language Development Methods for Elementary School
(Prerequisite: TED 615)
BTE 621B Reading and Language Arts Methods for the Elementary School
(Prerequisites: TED 615 and TED 621A)
BTE 622A Curriculum and Instruction I: History, Social Science, Physical Education and Visual and Performing Arts
(Prerequisite: TED 615 and TED 621A)
BTE 622B Curriculum and Instruction II: Mathematics and Science
(Prerequisites: TED 615 and TED 621A)

** Students must pass Reading Instruction Competency Assessment (RICA) before being recommended to the CCTC for the credential.
Student Teaching
(5 courses; 21.0 quarter units)

(Prerequisites: HED 502, EXC 625, EDT 608, BTE 612, TED 615, TED 605, TED 611, TED 621A, BTE 621B, BTE 622A, BTE 622B, with a 3.0 GPA.)

Student Teaching Requirements

• Grades of “D” or “F” not accepted
• Prior to student teaching, students must pass the CBEST and meet Subject Matter Competency by passing the CSET exam or by a letter from an accredited university verifying subject matter program completion.
• Prior to student teaching, students must have a zero account balance.

TED 629  Student Teaching Seminar *
(3.0 quarter units)
BTE 630A  Student Teaching
BTE 630B  Student Teaching
BTE 630C  Student Teaching
BTE 630D  Student Teaching

* TED 629 is taken concurrently with BTE 630A-D.

Students must pass Reading Instruction Competence Assessment (RICA) before being recommended to the CCTC for the credential.

The Teacher Education Emphasis and the Teacher Education with Bilingual Emphasis credentials authorize the holder to teach in a self-contained classroom, such as the classrooms in most elementary schools.

The Following Must be in Student’s File Prior to Filing for a Credential:

• Proof of a bachelor’s degree from a regionally accredited IHE with a GPA of 2.5.
• Copy of evaluation (if a non-U.S. degree) by a CCTC-approved international evaluation agency.
• Proof of passing the U.S. Constitution exam or transcript verifying completed U.S. Constitution course work
• Certificate of Clearance
• Tuberculin test clearance.
• Passing grade on grammar, reading and composition qualifying exam (Bilingual Emphasis only).
• Passing grade on oral interview with level 3 or above (Bilingual Emphasis only).
• Successful completion of the exit process, including passing portfolio review.
• Passing grade on the CBEST.
• Passing grade on the appropriate subject matter exam.
• Proof of passing the Reading Instruction Competence Assessment (RICA).
• Zero account balance prior to student teaching and completion.
• Completion of a minimum of 31 quarter units in residence.
• Completion of credential program within seven years.
• Grades “D” and “F” are not accepted.

PRELIMINARY SINGLE-SUBJECT CREDENTIAL PROGRAM WITH BILINGUAL EMPHASIS OPTION
(780-362/364)
(15 courses; 66 quarter units TED)
(16 courses; 70.5 quarter units BTE)

A preliminary single-subject credential is valid for a maximum of five years. During this five-year period, students must complete the induction requirements for a clear credential. The single-subject credential enables the candidate to teach in a departmentalized situation, typically at the secondary level. Students should see “Admission to Credential Programs” for specific admission information.

Prerequisite Admission Requirements

A conferred or completed bachelor’s degree from an accredited university or college with a minimum 2.5 GPA is required for admission. International students with a non-U.S. bachelor’s degree must have the degree evaluated by a CCTC-approved international evaluation agency before being admitted and starting the first course.

Highly Recommended Prior to Admission

• Passing score on CBEST
• Proof of having met subject matter competence requirement.

Bilingual emphasis students must pass the oral language, grammar, reading and writing proficiency examinations prior to methods courses.

Highly Recommended Before Admission:

• A passing score on CBEST (must be completed prior to student teaching).
• Proof of having met subject matter competence requirement.

Prerequisites to the Program
(3 courses; 13.5 quarter units)

HED 502  Health Education Across the Curriculum
EXC 625  Exceptional Children in the Classroom
EDT 608  Computer Based Technology in the Classroom

Note: Students must have access to Microsoft Office on either a PC or Mac platform.

Recommended Sequence

Foundations and Methods
(7 courses; 31.5 quarter units)

TED 615  Foundations of Education
TED 605  The Diverse Classroom
TED 611  Educational Psychology
TED 623  Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)
TED 625A  Curriculum and Development for Secondary and Middle Schools
(Prerequisites: TED 615 and TED 623)
TED 625B Instruction and Classroom Management for Secondary and Middle Schools
(Prerequisites: TED 615, TED 623 and TED 625A)
TED 624 Reading in the Content Areas in Secondary and Middle-Level Classrooms
(Prerequisites: TED 615 and TED 623)

All TED courses include a four hour field experience component which requires students to complete activities in K-12 schools.

**Student Teaching**
(5 courses; 21 quarter units)

(Prerequisites: HED 502, EXC 625, EDT 608, TED 615, TED 605, TED 611, TED 623, TED 625A, TED 625B and TED 624 with a 3.0 GPA.

**Prior to Student Teaching:**
- Students must pass the CBEST.
- Grades of “D” or “F” are not accepted in course work completed in credential program
- Students must have proof of meeting the Subject Matter competency.
- Students must have a zero account balance.

TED 629* Student Teaching Seminar (3.0 quarter units)
TED 630A Student Teaching
TED 630B Student Teaching
TED 630C Student Teaching
TED 630D Student Teaching
*TED 629 is taken concurrently with TED 630A-D.

**Accelerated Credential Program**

Students may be eligible to apply to accelerate their credential program by taking designated courses during student teaching. Eligible candidates must meet minimum qualifications for accelerated studies and will be restricted to the provisions outlined in the Policies and Procedures section. The provision is not available to students taking online classes. Students approved to accelerate their studies will be limited to register for two courses concurrently while student teaching.

**Teacher Education with Bilingual Emphasis**
(16 courses; 70.5 quarter units)

BCLAD emphasis students must complete the following courses with a GPA of 3.0 within seven years and maintain a 3.0 GPA. Grades of “D” and “F” are not accepted:

**Prerequisites**
(3 courses; 13.5 quarter units)

HED 502 Health Education Across the Curriculum
EXC 625 Exceptional Children in the Classroom
EDT608 Computer Based Technology in the Classroom

*Note: Students must have access to Microsoft Office on either a PC or Mac platform.

**Recommended Sequence**
(8 courses; 36 quarter units)

BTE 612 History and Culture of Latinos in the U.S.
(Taught in language of emphasis)
TED 615 The Foundations of Education
TED 605 The Diverse Classroom

TED 611 Educational Psychology
TED 623 Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)
BTE 625A Curriculum Development for Secondary and Middle Schools
(Prerequisite: TED 615 and TED 623)
BTE 625B Instruction and Classroom Management for Secondary and Middle Schools
(Prerequisite: TED 615, BTE 623 and BTE 625A)
BTE 624 Content Area Literacy for the Secondary and Middle Schools
(Prerequisite: TED 615 and TED 623)

**Student Teaching Requirements**
Applicable to all Multiple Subject and Single Subject Credentials and Special Education Credentials
Before beginning any part of student teaching, candidates must:
- Return the completed credentials packet within 30 days of admission and orientation
- Provide proof of passage of the CBEST
- Demonstrate subject matter competency
- Provide proof of possession of a Certificate of Clearance
- Provide verification of a negative tuberculin examination within four years of student teaching
- Interview with a School of Education faculty member
- Attend student teacher interview and orientation
- Complete the prerequisite course work with a 3.0 GPA; “D” and “F” grades are not accepted
- Complete a minimum of 31.5 quarter units in residence.
- Have a zero account balance.

See a credential advisor for specific information regarding any of these requirements.
Multiple and Single Subject Student Teaching Placements

Candidates are placed in their student teaching assignment by the University. Candidates do not place themselves.

Detailed requirements for student teaching are listed in the Student Teaching Handbook for Multiple Subject/Single Subject and Special Education and in the NU1 for Teacher Education and EXC 602 for Special Education packets.

Note: Teacher Education Candidates may apply for equivalency (see form in Student Teaching Handbook) of one half of this requirement if they can document appropriate experience and meet other specified criteria. Special Education student teaching is nine weeks and no equivalency is granted for Special Education.

Candidates will be placed:

- By the University in their student teaching school under supervision of a University Supervisor and Supervising Teacher(s) who models effective teaching, implements state-adopted academic core curriculum, mentors the candidate, and works with the University Supervisor.
- For at least one-half of their student teaching, in approved public or private schools that implement state adopted core curriculum content standards within the state of California. Summer school, after-school programs, and outdoor education programs will be reviewed to determine if they meet criteria for a student teaching assignment. Court schools or community alternative schools may be acceptable placements for one-half of the student teaching experience.
- Out of state courtesy placements in state-accredited schools outside California may be considered if the candidate moves out of state. Prior approval must be given by the field experience coordinator in San Diego.
- In a supervised full-time student teaching assignment within the credential area for one full academic semester. The National University Teacher Preparation Program follows a graduated model. As a result, while candidates are onsite for the full day, they will be required in the first weeks to observe, discuss, reflect and participate in important aspects of teaching, as well as teaches individual students and groups of students. As teacher candidates progress, they should actively co-plan and co-lead with their supervising teacher. Once candidates have successfully become responsible for a small aspect of the teaching day (one or two periods or selected topics), they advance to daily responsibility for whole-class instruction by the midpoint of the semester.
- In two different teaching settings. One placement must be in an under-performing and/or hard-to-staff school, and/or a classroom with English learners. BCLAD candidates must be in classrooms that provide literacy and academic content taught in the language of emphasis for at least one extended teaching assignment.
- In two different grade spans.

Multiple Subject Candidates will be placed:

- In classrooms to observe and participate at two or more of the following grade spans: K-2, 3-5, and 6-9. A K-2 class experience is required unless there is documented fieldwork experience with beginning readers.

Single Subject Candidates will be placed:

- In two or more subject-specific teaching assignments that differ in content and/or grade level.
- In a teaching experience of a minimum of four academic periods a day in two classroom settings.

Credential Candidates Teaching Under Contract

National University provides a program whereby actively employed teachers can complete the requirements for their teaching credential while employed. All of the student teaching may be conducted in the candidate’s classroom, assuming that the contract position is a match for the credential sought. Credential candidates teaching under contract:

- In an approved multiple-subject assignment can complete the assignment in their own classroom. There must be documented experience with K-2 or beginning readers, otherwise candidates must complete four weeks in an alternate setting with a certified teacher.
- In an approved single-subject assignment (within the credential area) can complete the full semester in their own assignment provided that they are teaching four periods in two grade levels, or can document prior experience at other grade levels.
- In a regionally (WASC) approved non-public school setting must complete a minimum of one course of the four-course sequence student teaching experience in a public school.
- Teach under the supervision of a University Supervisor and Supervising Teacher(s) who models effective teaching, implements state-adopted academic core curriculum, mentors the candidate, and works with the University Supervisor.

Recommendation for a California Credential

To be formally recommended for California credentials, students must meet the following requirements:

- Successful completion of the course work with a minimum grade point average of 3.0 for graduate course work. (Grades of “D” and “F” are not accepted.) All course work must be completed within seven years to be accepted.
- Fulfillment of all financial obligations to the University before registering for the exit exam.
- Passing a portfolio review that covers the objectives of the particular program pursued. Contact your local credential advisor for deadline and review dates.

Each candidate must have on file:

- A completed exit packet
- A zero account balance
- Official transcripts from all colleges/universities attended
- Proof of passing the Reading Instruction Competence Assessment (RICA). (Multiple Subject Teacher Education/Bilingual Emphasis and Special Education only.)
- Bilingual Emphasis only – verification of passing scores on oral and written language proficiency examinations.
- Original score reports or cards from CSET, PRAXIS, MSAT, or SSAT
- Proof of passing with a grade of “C” or better course work or an examination covering the U.S. Constitution
- Written evaluations of performance in field experiences, internships, educational projects, student teaching and other practica

All candidates are expected to participate in the evaluation of programs including follow-up studies after being employed in the field.
ADDITIONAL REQUIREMENTS FOR PROFESSIONAL LEVEL MULTIPLE OR SINGLE SUBJECT TEACHING CREDENTIAL

It is the candidates’ responsibility to familiarize themselves with the renewal requirements listed on their credential and enroll in the appropriate program.

All Professional Level Candidates must have:
Verification of CPR – Infant, Child, Adult
Zero Account balance

Plus:

HOLDERS OF A RYAN CREDENTIAL AND AB 1059
(751)
(4 courses; 18 quarter units)

1) A Commission accredited SB 2042 Professional Teacher Induction Program, if available, and the CPR component of the health education requirement if it was not already completed for the preliminary credential
2) District BTSA Program and Health, Special Education, Computer Requirements (if not completed for preliminary- plus Advanced Computer Education.)

HED 502  Health Education Across the Curriculum
EXC 625  Exceptional Children in the Classroom
EDT 608  Computer Based Technology in the Classroom (Level 1 Technology Requirement)
EDT 655  Issues and Trends in Educational Technology (Level II Technology Requirement)

OR

3) Fifth Year of Study – (may be completed prior to the issuance of the Preliminary MS/SS Teaching Credential.) *
   (Health,Special Education, Computer Education, -( if not completed for preliminary) plus Advanced Computer Education)

HED 502  Health Education Across the Curriculum
EXC 625  Exceptional Children in the Classroom
EDT 608  Computer Based Technology in the Classroom ( Level 1 Technology Requirement)
EDT 655  Issues and Trends in Educational Technology (Level II Technology Requirement)*

* Candidates who earned a Preliminary Credential prior to July 1, 2002, are not required to fulfill the Level II technology requirement.

HOLDERS OF A PRELIMINARY 2042 MS/SS TEACHING CREDENTIAL
(749)
(3 courses; 13.5 quarter units)

1) A Commission accredited SB 2042 Professional Teacher Induction Program, if available,( may have started in the BTSA Program) and the CPR component of the health education requirement AND advanced study of health education, special populations, and advanced technology.
OR
2) Completion of an approved Fifth-Year of Study *
   AND advanced study of Health Education, Special Populations, and Computer Education

HED 620  Comprehensive School Health Programs
EXC 604  Exceptionality and Diversity in the Classroom
EDT 655  Issues and Trends in Educational Technology

OUT-OF-STATE TRAINED CANDIDATES REQUIREMENTS FOR PROFESSIONAL CLEAR
(748)

Under three years of experience – see information for Ryan Credential holders
Three to four years of experience – BTSA OR approved SB 2042 Professional Teacher Induction program
Five years or more of teaching experience- 150 clock hours aligned with the CSTP

Plus any additional requirements listed on their document including but not limited to U.S. Constitution, teaching of reading, subject-matter competence, and CBEST

* Fifth Year of Study : Masters degree or course work consisting of 45 quarter units beyond the BA degree completed at a regionally accredited IHE in a defined field of study designed to improve the teacher’s competence and skills. (may be completed prior to the issuance of the Preliminary MS/SS Teaching Credential)
   This fifth year course of study must be accredited by a California teacher preparation institution and may be used for one or more of the following purposes:
   • Additional subject-matter preparation, including, but not limited to, pursuit of a master’s or higher degree
   • Completion of an accredited program for an advanced or specialized credential
   • In-service training for which college or university credit is given
   • Study undertaken to complete an accredited program of professional preparation

All courses must be completed with a grade of “C” or better.
This credential option has different prerequisites than those for the Preliminary Teaching Credential. The Intern Program is on a contract basis between an individual school district, the local teachers’ union and National University. Intern Programs may not begin, nor may students be enrolled in the program, without prior approval of the Dean of the School of Education and the faculty where the intern option is available. The Internship program is not available at all campuses.

Interns are salaried employees of the districts or have an offer of employment from a school district.

Internship programs provide opportunities for credential candidates to assume the responsibilities of full time teachers while they pursue their professional studies on an Internship Credential, valid for two years.

Qualifications for applicants for admission to an Internship:
- Possess a baccalaureate degree from a regionally accredited college or university
- Proof of subject matter competence
- Passage of the CBEST
- Prior to assuming intern responsibilities, interns must complete pre-service coursework. Interns complete the same course work required of non-interns but the sequence is re-ordered to assist the intern in their teaching role.

Intern Program Sequence

Pre-service Requirements Coursework

TED 605 The Diverse Classroom (MS/SS)
TED 621B Reading and Language Arts Methods for the Elementary School (MS)
TED 624 Reading in the Content Areas in Secondary and Middle Schools (SS)

Pre-Service Advisement

School District’s Orientation Workshop

IN1 National University Orientation with Faculty and Staff Collaborative Planning Meeting with Intern, Support Supervisors (Site and University)

First Semester of Intern Teaching Coursework

TED 610 Introduction to the Intern Teaching Experience (MS/SS)
(May not be taken online)
TED 629I Intern Teaching Seminar (MS/SS)
EDT 608 Computer-Based Technology in the Classroom (MS/SS)
TED 615 Educational Foundations (MS/SS)
TED 611 Educational Psychology (MS/SS)

Attend and participate in School District’s Regular Workshops and Collaborative Monthly Meeting with Intern, Support Supervisors (Site and University)

Second Semester of Intern Teaching Coursework

TED 629I Intern Teaching Seminar continued (MS/SS)
TED 621A Language Development Methods for the Elementary School (MS)
TED 623 Language Development Methods for Secondary and Middle Schools (SS)
TED 622A Curriculum and Instruction I: History, Social Science, PE, Visual and Performing Arts (MS)
TED 625A Curriculum and Development for Secondary and Middle Schools (SS)
TED 622B Curriculum and Instruction: Math and Science (MS)
TED 625B Instruction and Classroom Management for Secondary and Middle Schools (SS)

- Attend and participate in School District’s Regular Workshops and
- Collaborative Monthly Meetings with Intern, Support Supervisors (Site and University)

Third and Fourth Semester Intern Teaching Coursework

HED 502 Health Education Across the Curriculum (MS/SS)
EXC 625 Exceptional Children in the Classroom (MS/SS)

Application for the preliminary credential.

Early Completion Option (ECO)

Candidates must meet all internship qualifications and meet with a faculty advisor prior to choosing this option.

Students on a Multiple Subject or Single Subject Internship Credential may choose an Early Completion Option. This option requires that the student satisfactorily completes the Teacher Performance Expectations portfolio assessment and passes HED 502, EDT 608, EDT 655, and EXC 625. Multiple subject candidates must also pass the RICA and it is recommended that they take TED 621B prior to taking the exam.

The ECO meets the Highly Qualified Requirements of No Child Left Behind.

Individual Internship Certificate (IIC)

Candidates must meet the following criteria:
- Possess a baccalaureate degree from a regionally accredited college or university
- Meet subject matter competency requirements
- Provide proof of passage of the CBEST
- Prior to assuming intern responsibilities, interns must complete pre-service coursework. Interns complete the same course work required of non-interns but the sequence is re-ordered to assist the intern in their teaching role.

Students apply for the IIC through participating districts.

The application must be signed by both the District representative and an authorized credential supervisor or advisor. The student must meet with a faculty advisor within 90 days to complete an Individualized Teacher Preparation Plan (ITPP), to be filled with the District. Students on an IIC complete the regular Teacher Education or Education Specialist program.

The IIC meets the Fully Qualified requirement of No Child Left Behind.
PRELIMINARY TIER I ADMINISTRATIVE SERVICES CERTIFICATE/CREDENTIAL  

(752)  

(10 courses; 45 quarter units)

This program is designed for students who are committed to improving education and who want to advance their careers by becoming public school administrators.

**Scheduling**

All courses; with the exception of field experience ED 620B, are scheduled by an advisor. The field experience course work, ED 620B, is scheduled by a placement coordinator once students submit a completed credential packet and after approval by a designated full-time or associate faculty member. (Students must submit the completed packet within 30 days of attending a credential orientation meeting.)

**Admission Requirements**

- Formal application to the University and to the Credentials Department. See “Admission to Credential Programs.”
- Meet all requirements for admission to credential program, including attendance at mandatory faculty advisement session.
- Complete a candidate statement to be reviewed and signed by faculty.
- Appointment with credential advisor within 30 days of admission to return packet and to be cleared for ED 620B. ED 620B is administered by local faculty members and must be completed in residence.
- An overall grade point average of 3.0 in previous graduate work.
- Possession of a valid preliminary, professional clear, life, general, or service credential. An emergency teaching permit does not qualify as an accepted credential for admission.
- Passing of CBEST verified or proof of CBEST to be taken at next available date

In order to avoid matriculation or scheduling errors, students must meet with a credential advisor within 30 days of enrollment.

**Completion Requirements**

- Three years of experience while in possession of a valid California emergency permit and/or teaching credential issued under the law, rules and regulations in effect on or before December 31, 1971, requiring the possession of a baccalaureate degree. Two years experience may be accepted with an emergency teaching permit. One year experience must be verified while holding a valid credential. Substitute teaching does not qualify for full-time experience.
- Three years of experience appropriate to the possession of a services credential with a specialization, while holding the appropriate credential for the entire three years
- An approved program of professional education
- A passing score on the CBEST. Highly recommended prior to admission.
- A minimum grade point average of 2.5. Grades of “D” and “F” are not accepted.
- Verification of meeting the requirement of EXC 625 or equivalent course of study.

- Completion of a minimum 27 quarter units in residence
- Field experience, ED 620B must be completed in residence
- Successful completion of final exit exam and exit process. (See “Final Recommendation for the Credential.”) The University issues an official letter of completion from San Diego.
- Zero account balance

**Program Prerequisite:**

(1 course; 4.5 quarter units)

EXC 625 Exceptional Children in the Classroom

**Required Course Work**

(9 courses; 40.5 quarter units)

Students must complete all course work with a GPA of 3.0 within seven years. Grades of “D” and “F” are not accepted.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ED 618A</td>
<td>Legal Aspects of Education</td>
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<tr>
<td>ED 619A</td>
<td>Financial Aspects of Education</td>
</tr>
<tr>
<td>ED 614A</td>
<td>Theories, Assessment and Application of Educational Leadership</td>
</tr>
<tr>
<td>ED 615A</td>
<td>School Community Relations in a Diverse Society</td>
</tr>
<tr>
<td>ED 616A</td>
<td>Management of Education Personnel: Social, Political and Policy Issues</td>
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<tr>
<td>ED 620A</td>
<td>Seminar in Educational Leadership*</td>
</tr>
<tr>
<td>ED 624A</td>
<td>Supervision of Instruction: Curricula Evaluation and Staff Development</td>
</tr>
<tr>
<td>ED 670C</td>
<td>Leadership Technology and Its Application</td>
</tr>
<tr>
<td>ED 620B</td>
<td>Preliminary Administrative Field Experience **</td>
</tr>
</tbody>
</table>

* Students must complete two courses other than ED 620B or ED 670C before they can take this course.

** Students must complete this course within 3-12 months of being formally scheduled for it. They must complete three courses in the credential sequence before taking this course. This course may be taken concurrently with another class. It can be scheduled for an open month.

Students can earn the preliminary administrative services certificate as part of the Master of Science in Educational Administration.

**Exit Requirements**

- Verification of passing CBEST and mainstreaming requirements
- Exit interview with credential advisor
- Exit exam
- Zero account balance

**Certificate/Credential**

Students are issued a certificate upon completion of the program. The certificate is required for entry-level administrative positions and before the student is eligible to pursue the professional administrative services credential unless student provides a completed CL-777.
The preliminary administrative services intern credential program allows students who meet the admissions requirements to begin service as an administrator in their sponsoring district while completing their formal course work preparation. Students who qualify for admission may begin the program upon starting an administrative position, either at the beginning of their program or while currently enrolled in the regular preliminary administrative services credential program. Intern students participate in the standard coursework with intern addenda and complete an alternative field work experience directly related to their administrative responsibilities.

State of California Requirements

- Passage of the CBEST
- Possession of a bachelor’s degree from a regionally accredited college or university
- Possession of a valid preliminary, professional clear, life, general, or service credential.
- An emergency credential does not qualify as an accepted credential for admission.
- Three years of experience while in the possession of a valid California emergency permit and/or teaching credential issued under the laws, rules, and regulations in effect on or before December 31, 1971, requiring the possession of a baccalaureate degree. Two years experience may be accepted with an emergency teaching permit.
- One year experience must be verified while holding a valid credential. Substitute teaching does not qualify for full-time experience.
- Three years of experience appropriate to the possession of a services credential with a specialization, while holding the appropriate credential for the entire three years.
- Verification of support from the intern candidate’s sponsoring district, including verification of a willingness to enter into an intern partnership with National University and a signed Memorandum of Agreement between the sponsoring district and the University that assures that the intern will be provided the services of a site mentor and that relevant stipulations of Education Code and California Commission on Teacher Credentialing regulations are followed.

Admissions Requirements

- All candidates for the intern program must have a GPA of 3.0 in their previous graduate work.
- All candidates must furnish three letters of recommendation from their district discussing their prospects for success in the program. One of the letters must be from their superintendent or the superintendent’s designee pledging district support of the the candidate.
- The candidate must submit a letter of application stating his or her qualifications for admission to the intern program, why he or she wants to enter the intern program, and his or her philosophy of education.
- The candidate must participate in an in-depth interview assessing his or her prospects for success in meeting his or her administrative responsibilities. The interviewers will be a University faculty member and a representative of the candidate’s site or district.
- The University will secure an intern administrative credential authorizing service permitted by the preliminary administrative services credential once the student has been formally admitted to the intern program.

Required Course Work

(10 courses; 45 quarter hours)

Students must complete all course work with a GPA of 3.0 within seven years. Grades of “D” and “F” are not accepted. The intern credential, however, is valid for a maximum of two years and all work leading to a regular preliminary administrative services credential must be completed within that time for the student to be able to retain a position requiring a preliminary administrative services credential.

Prerequisite

(1 course; 4.5 quarter units)

EXC 626 Exceptional Children in the Classroom

Program Core Requirements

(9 courses; 40.5 quarter units)

ED 624A Supervision of Instruction
ED 618A Legal Aspects of Education
ED 619A Financial Aspects of Education
ED 614A Theories, Assessment, and Application of Educational Leadership
ED 615A School Community Relations in a Diverse Society
ED 616A Management of Educational Personnel: Social, Political, and Policy Issues
ED 670C Leadership Technology and its Application
ED 620A Seminar in Educational Leadership*
ED 620I Intern Induction Seminar**
*Students must complete two courses other than ED 620I before they can take this course.

**This course is taken in place of ED 620B, the practicum/field work required in the regular preliminary administrative services credential program. Interns register once for this course, at the beginning of their work in the intern program, and meet monthly with the instructor over the duration of their intern program.

Interns may elect to take some courses online. They must, however, participate in ED 620I on-ground in accordance with the schedule of the University.

Completion Requirements

- Completion of a minimum of 27 quarter hours in residence. Units from the regular National University preliminary administrative services credential program, successfully completed within the past seven years, are acceptable.
- ED 620I, the Intern Induction Seminar, must be taken in residence on-ground.
- All interns complete an extensive comprehensive written examination addressing major competencies of the program. The examination will be completed over the duration of the intern program and presented as a research based essay during the intern’s final month of participation in ED 620I.
- All interns will be required to participate in an oral exit examination. The oral examiners will represent both National University and the sponsoring site/district. The examination will be conducted the last month the intern is in the program.
- Verification of meeting the requirement of EXC 625 or equivalent course of study or in lieu of experience.
- Exit interview with credential advisor
- Zero account balance
PROFESSIONAL (TIER II)
ADMINISTRATIVE SERVICES CREDENTIAL
(753)
(3 courses; 13.5 quarter units)

Admission Requirements

- Formal application to the University and to the Credentials Department. See “Admission to Credential Programs”
- Appointment with credential advisor within 30 days of admission in order to avoid matriculation or scheduling errors
- Possession of a bachelor’s degree with a GPA of 2.5 or a complete evaluation from a CCTC-approved international evaluation agency.
- Possession of a valid preliminary administrative services credential
- Current employment as an administrator in California

Scheduling

All courses are scheduled by an advisor.

Completion Requirements

- A minimum of two years of successful, full-time school administrative experience in the public schools, or private schools of equivalent status. Students must work under contract while holding a valid preliminary administrative services credential for the entire two years.
- Completion of a commission-approved program for the professional administrative services credential
- Grades are “S” (Satisfactory) or “U” (Unsatisfactory). All grades must be “S”.
- Zero account balance

Program Requirements

(3 courses; 13.5 quarter units)

Students must complete all course work with a grade of “S” within the time allowed by CCTC for the granting of the Tier II credential.

EDA 607  Induction Seminar
EDA 608  Professional Development Seminar
EDA 609  Assessment Seminar

Courses must be completed in the above sequence.

Exit Requirements

- Exit interview with credentials advisor
- Exit interview with full-time faculty
- Zero account balance

PUPIL PERSONNEL SERVICES (PPSC)
CREDENTIAL SCHOOL COUNSELING
(758)
(18 courses; 76.5 quarter units)

This credential authorizes the holder to serve as an educational counselor in a school setting at any grade level K-12.

Students who have completed an appropriate master’s degree in counseling or psychology from National University or another regionally-accredited institution can work toward a Pupil Personnel Services Credential with a Counseling Specialization (PPSC) (i.e. without receiving another master’s degree). To meet state-required competencies for the credential, students must complete either the entire Master of Science in Educational Counseling or the prerequisites and requirements for the MS in Educational Counseling not already met in previous graduate course work.

For National University students who hold an MA in Counseling Psychology, the requirements are: CED 604, TED 611, CED 606, CED 612, CED 601A, CED 601B, CED 620 and 13.5 quarter units of fieldwork. Students who have completed a master’s degree or master-level course work in psychology from another regionally accredited institution need to have their previous work evaluated by the PPSC lead faculty advisor.

A total of three graduate courses may be transferred for equivalent graduate work. Students must complete all course work with a grade of “B” or better. Grades of “D” and “F” are not accepted. Course equivalence cannot be granted for life experience. Students who received a GPA of lower than 3.0 may be evaluated by the faculty and may be required to do remedial work and/or be required to repeat the course at their own expense before being allowed to continue in the program.

Admission Requirements

Students seeking Pupil Personnel Services Credential in School Counseling (PPSC) must:
- Possess a bachelor’s degree from a regionally accredited university with a minimum 2.5 GPA. Students with a non-U.S. bachelor’s degree must have their degree evaluated by a CCTC-approved international evaluation agency prior to being admitted and starting the first course.
- Provide official transcripts from all universities/colleges attended and place on file at National University.
- Possess an appropriate master’s degree in educational counseling or psychology if entering the credential ONLY program.
- Begin attending CED 604, Orientation and Field Experience in PPS. Students may take prerequisites while taking CED 604.
- Provide proof of passing the CBEST
- Return a credential packet to a credential advisor during CED 604
- Students will receive a credential packet, and must complete a “candidate statement” that is reviewed and signed by the faculty advisor for admission into the program.
- Students must return their credential packet to the credential advisor by the end of the course otherwise students will receive an “I” for CED 604.

Scheduling

All PPSC students will be assigned a faculty advisor. All students are expected to meet with their assigned faculty advisor upon admission to the program and throughout the program, before starting their fieldwork and after completion of coursework and fieldwork hours.

Program Prerequisites

(1 course; 4.5 quarter units)

It is strongly recommended, but not required, that applicants have one year of related professional experience working with school-age children, preferably in a public school setting.

Before being admitted to this program, students must complete the following course work (or equivalent):

MTH 210  Introduction to Probability and Statistics
Students should meet with a faculty advisor for evaluation of prior course work to meet program prerequisites.

**Required Course Work**

(15 courses, 63 quarter units)

CED 604  Orientation and Field Experience in PPS  
(1.5 quarter units)  
(Prerequisite for all CED courses beyond the first two)

TED 611  Educational Psychology

CED 600  Child and Adolescent Development

CED 602  Current Social Concerns

IL 680  Research in Education

CED 606  School Programs and Services

CED 610  Counseling Theory and Practice

CED 611  Group Counseling  
(Prerequisite: CED 610 with a B or better)

CED 601A  Multicultural Counseling Skills  
(Prerequisite: CED 611 with a B or better)

CED 601B  Consultation in School Counseling and Psychology  
(Prerequisite: CED 601A with a B or better)

CED 612  Career Development

CED 613  Psycho-Educational Assessment

CED 614  Legal, Ethical and Professional Issues

EXC 625  Exceptional Children in the Classroom

CED 620  Fieldwork Seminar in School Counseling  
(3 quarter units)  
(Concurrent with fieldwork)

Fieldwork Prerequisites

Before beginning fieldwork, students must:

- Have a Certificate of Clearance or Teaching Credential
- Provide verification of TB clearance
- Complete all of the screening and admission requirements
- Proof of CBEST
- Complete CED 604 plus ten CED courses or the equivalent with a 3.0 or better GPA
- Complete 100 hours of approved logged practicum
- Submit a Fieldwork Application to the Fieldwork coordinator and be assigned a University Fieldwork Supervisor.
- Meet with faculty advisor and gain approval to begin fieldwork

Students should refer to the PPS Fieldwork Handbook for School Counseling for specific information about practicum and fieldwork requirements.

Fieldwork

(3 courses; 13.5 quarter units)

Each 4.5 units of fieldwork requires at least 2 months and a minimum of 200 direct service hours. A minimum of 600 clock hours is required. Students should refer to the PPSC Program Handbook for specific information about the practicum and fieldwork. Students must attend CED 620 sessions concurrently with their fieldwork. Students may take other counseling course work concurrently with fieldwork.

Students select three courses (13.5 quarter units) in any combination that includes two levels from the following courses:

CED 616A  Counseling Fieldwork - Elementary School (200 hours)  
4.5 units

CED 616B  Counseling Fieldwork - Elementary School (200 hours)  
4.5 units

CED 617A  Counseling Fieldwork - Middle School (200 hours)  
4.5 units

CED 617B  Counseling Fieldwork - Middle School (200 hours)  
4.5 units

CED 618A  Counseling Fieldwork - High School (200 hours)  
4.5 units

CED 618B  Counseling Fieldwork - High School (200 hours)  
4.5 units

Exit Requirements

In order to receive a degree and/or a PPSC credential, students must complete courses within seven years. Additional requirements:

- Successful completion of final exit evaluation
- Pass an exit interview with faculty advisor and university supervisor
- Pass portfolio review
- Complete Program Evaluation Form—School Counseling
- Submit written evaluations of performance in fieldwork experiences by site supervisor and university supervisor
- Attend exit appointment with credential advisor to receive final clearance and credential documents
- Have a zero account balance

Credential Application Information

Upon completing the course work and fieldwork successfully, students must meet with a credential advisor to receive, complete and submit the Commission on Teacher Credentialing application form for the PPSC school counseling credential.

**PUPIL PERSONNEL SERVICES CREDENTIAL SCHOOL PSYCHOLOGY**

(780-760)  
(26 courses; 112.5 quarter units)

This credential authorizes the holder to serve as a school psychologist in a school setting at any grade level K-12.

Students who have completed an appropriate master’s degree in counseling or psychology from this or another regionally-accredited institution can work toward a Pupil Personnel Services Credential with a School Psychology Specialization (i.e. without receiving another Master’s Degree). To meet state-required competencies for the credential, students must complete either the entire Master of Science in School Psychology or the prerequisites and requirements for the MS in School Psychology not already met in graduate coursework. Students wishing to pursue this option should schedule an appointment with the lead faculty advisor and receive an evaluation of prior coursework.

For National University students who hold an MA in Counseling Psychology, the requirements are: CED 604, TED 611, CED 606, CED 601A, CED 601B, EXC 620, all PED courses and 18 quarter units of fieldwork.

Students who also want to complete a PPSC School Counseling Credential must complete an additional 13.5 quarter units of School Counseling fieldwork and take the Professional Seminar: Seminar in School Counseling (CED 620).

Students must complete all course work with a GPA of 3.0. Students who receive a GPA lower than 3.0 may be evaluated by the faculty and may be required to do remedial work and/or be required to repeat the course at their own expense before being allowed to continue in the program. Grades of “D”, and “F” are not accepted. Students who are absent for a period of 12 months or more must re-enroll and rematriculate under a new catalog.
Admission Requirements

Students seeking a Pupil Personnel Services Credential in School Psychology (PPSP) must:

• Possess a bachelor’s degree from a regionally accredited university with a 2.5 GPA. Students with a non-U.S. degree must have the degree evaluated by a CCTC-approved international evaluation agency before being admitted and starting the first course.
• Possess an appropriate master’s degree in educational counseling or psychology if entering the credential only program.
• Begin attending CED 604, Orientation and Field Experience in PPS, either before beginning their first class or during their first class.
• Return credential packet during CED 604.
• Complete a faculty interview and receive final admission to the program.
• Provide proof of passing the CBEST.
• Provide proof that the student possesses a Certificate of Clearance or teaching credential prior to being cleared for fieldwork.
• Complete a minimum of 45 quarter units in residence.
• Students will receive a credential packet, and must complete a “candidate statement” that is reviewed and signed by the faculty advisor for admission into the program.
• Students must return their credential packet to the credential advisor by the end of the course otherwise students will receive an “I” for CED 604.

See a credential advisor for specific information regarding any of these requirements

Scheduling

All PPSP students will be assigned a faculty advisor. All students are expected to meet with their assigned faculty advisor upon admission into the program and throughout the program, before starting their fieldwork and after completion of coursework and fieldwork hours.

All courses, with the exception of fieldwork, are scheduled by an admissions advisor. CED 610, CED 611, CED 601A, and CED 601B (counseling specialization) should be scheduled sequentially. Students must complete all CED courses before beginning the assessment course sequence (PED 681, PED 682, PED 684A, PED 680, PED 683 and PED 684B).

Program Prerequisites

(3 courses; 13.5 quarter units)

It is strongly recommended that applicants have one year of related professional experience working with school-age children, preferably in a public school setting.

MTH 210 Introduction to Probability and Statistics
PSY 301 Child Development
PSY 430 Introduction to Psychopathology

Students should meet with a faculty advisor for evaluation of prior coursework to meet program prerequisites.

Required Course Work

(21 courses; 90 quarter units)

CED 604 Orientation and Field Experience in PPS
(Prerequisite for all CED courses beyond the first two)
TED 611 Educational Psychology
CED 600 Child and Adolescent Development
CED 602 Current Social Concerns
CED 606 School Programs and Services
IL 680 Research in Education
CED 610 Counseling Theory and Practice
CED 611 Group Counseling
(Please note: CED 610 requires a B or better)
CED 601A Multicultural Counseling Skills
(Please note: CED 611 requires a B or better)
CED 601B Consultation in School Counseling and Psychology
(Please note: CED 601A requires a B or better)
CED 613 Psycho-Educational Assessment
CED 614 Legal, Ethical and Professional Issues
EXC 625 Exceptional Children in the Classroom
EXC 620 Positive Behavior Support
PED 680 Problems and Issues in School Psychology
PED 681 Educational and Psychological Assessment of the Child
(Please note: CED 604, CED 613 plus five additional CED courses)
PED 682 Advanced Individual Assessment
(Please note: PED 681 requires a B or better)
PED 683 Program Development and Evaluation
PED 684A Eligibility Assessment and Low-Incidence Populations
(Please note: PED 681 and PED 682 require a B or better)
PED 684B Alternate Assessment
(Please note: PED 681 and PED 682)
PED 685 Fieldwork Seminar in School Psychology
(3 quarter units)
(Prerequisite: PED 684B)
(Concurrent with fieldwork)

** Fieldwork Prerequisites

Pre-Fieldwork

(1 course; 4.5 quarter units)

PED 678 Practicum in School Psychology

Students are required to complete 450 hours of pre-fieldwork (practicum) prior to starting their fieldwork. Students will begin taking PED 678 Practicum in School Psychology early in the program. This course is taken concurrently with other coursework

Fieldwork Prerequisites

Before beginning fieldwork, students must:

• Have a Certificate of Clearance or a Teaching Credential
• Provide verification of TB clearance
• Complete all of the screening and admission requirements
• Have passed the CBEST
• Complete prerequisite coursework and all PED courses (except PED 685) and CED 604 plus nine additional CED courses or the equivalent
• Complete 450 hours of approved, logged practicum
• Submit a Fieldwork Application to the Fieldwork Coordinator and be assigned a University Fieldwork Supervisor.

Students should refer to PPS Fieldwork Handbook for School Psychology for specific information about the practicum and fieldwork requirements.
Fieldwork
(4 courses; 18 quarter units)
(Must be completed in residence)

Each 4.5 units of fieldwork requires at least two months and a minimum of 300 direct service hours. A minimum of 1200 clock hours is required. Students should refer to the PPSP Program Handbook and the Student Handbook for specific information about the pre-fieldwork and fieldwork requirements.

Students must attend PED 685 concurrently with the fieldwork. Students may take other counseling course work concurrently with fieldwork.

Students select 18 quarter units in any combination that includes at least two levels, from the following courses:

- PED 687A/B School Psychology Fieldwork Elementary I, II (300 hours each)
- PED 688A/B School Psychology Fieldwork Middle I, II (300 hours each)
- PED 689A/B School Psychology Fieldwork High I, II (300 hours each)

Exit Requirements

In order to receive a master’s degree and/or a PPSC credential, students must complete courses within seven years.

- Successful completion of a final exit evaluation
- Pass the portfolio review
- Complete Program Evaluation Form—School Psychology
- Pass exit interview with faculty advisor and university supervisor
- Submit written evaluation of performance in fieldwork experiences by site supervisor and university supervisor.
- Return portfolio to their University Supervisor
- Attend exit appointment with credential advisor to receive final clearance and credential documents
- Have a zero account balance

Students who want to complete a second PPSC School Counseling Credential must complete an additional 100 hours of practicum, 13.5 quarter units (600 hours) of School Counseling fieldwork and CED 620.

Credential Application Information

Upon successful completion of the course work and fieldwork, students must meet with a credential advisor to receive, complete and submit the Commission on Teacher Credentialing application form for the PPSF school psychology credential.

PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIALS: MILD/MODERATE DISABILITIES OR MODERATE/SEVERE DISABILITIES WITH CLAD CERTIFICATE OR CONCURRENT MULTIPLE OR SINGLE SUBJECT CREDENTIAL

In California, Preliminary Level I Education Specialist Credentials in Mild/Moderate Disabilities and Moderate/Severe Disabilities authorize the provision of services to individuals in grades K through 12, including adults. The Mild/Moderate Disabilities credential authorizes the teaching of individuals with specific learning disabilities, mental retardation, other health impairments and emotional disturbance. The Moderate/Severe Disabilities credential authorizes the teaching of individuals with autism, mental retardation, deaf-blindness, emotional disturbance and multiple disabilities.

Although many of the courses in this credential program are offered online, certain testing courses and fieldwork in the Advanced Specialization program must be taken at a campus location.

Admission Requirements

Before being accepted to the credential program, students must possess a bachelor’s degree from a regionally-accredited college or university and be enrolled in the University. Students with a non-U.S. degree must receive an evaluation from a CCTC-approved international evaluation agency prior to admission and starting the first course. Students are admitted to the credential program when they attend the credential orientation meeting (EXC 602A) and return the completed credential packet. (See Admission to Credential Programs in the previous section.)

National University recognizes its responsibility to exercise judgment in recommending persons for California teaching credentials. Students must submit a completed credentials packet and be interviewed by a credential advisor and a School of Education faculty member. The credentials packet is available from a credential advisor at the credential orientation (EXC 602A) meeting and must be completed and submitted before the end of course EXC 602A, within the first 30 days of enrollment. Course equivalence is not granted for life experience.

Recommendation for Preliminary Level I Education Specialist Credential

In order to be recommended for a California Preliminary Level I Education Specialist credential in Mild/Moderate or Moderate/Severe Disabilities, students must show:

- Successful completion of the admission process
- Successful completion of the field experience activities, including Student Teaching
- Successful completion of the program within seven years
- Proof of passing with a grade of “C” or better course work or an examination on the U.S. Constitution
- Official transcripts of all colleges/universities attended on file at National University
- Proof of passing CBEST. Highly recommended taking before admission to program.
- Proof of meeting the appropriate subject matter competence
- Completion of 31 quarter units in residence
• Maintenance of a GPA of 3.0 in credential program coursework; “D” and “F” grades are not accepted.
• Receipt of a Certificate of Clearance before student teaching
• Successful completion of the generic core and advanced specialization requirements
• Proof of passing the Reading Instruction Competence Assessment (RICA); Multiple Subject BTE and Educator Specialist.
• Verification of passing scores (Bilingual Emphasis only) on the oral and written language proficiency examinations.

Scheduling

All generic courses are scheduled by an advisor. Only credential advisor schedule the advanced specialization courses; student teaching, only after students complete generic core exam and submit a completed credential packet during EXC 602A.

Admission to Field Experiences

Before beginning any part of the Student Teaching, students must:

• Return the completed credentials packet within 30 days of admission and orientation.
• Provide proof of passing the CBEST*
• Demonstrate subject-matter competency
• Provide proof of possession of a Certificate of Clearance
• Provide verification of a negative tuberculin examination within four years of student teaching
• Interview with a School of Education faculty member
• Complete all other course work in the Education Specialist program
• Complete the prerequisite course work with a 3.0 GPA. “D” and “F” grades are not accepted.

* Highly recommended prior to admission and at the first available test date after enrollment. Must be passed prior to student teaching.

See a credential advisor for specific information regarding any of these requirements.

Field Experience Requirements

Note: Detailed requirements for field experiences are listed in the Student Teaching Handbook and in the Credential Packet.

• Before beginning field experience (student teaching), students must complete all prerequisite courses with a 3.0 GPA. Grades of “D” and “F” are not accepted.
• Students should see a credential advisor for specific information regarding any of these requirements.

PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE DISABILITIES WITH CLAD CERTIFICATE

(780-356) (-767 Single) (-768 Multiple)
(22 courses; 84 quarter units)

Prerequisites

(2 courses; 9 quarter units)
HED 502 Health Education Across the Curriculum
EDT 608 Computer-Based Technology in the Classroom

Generic Core Requirements

(11 courses; 43.5 quarter units)

Field experience courses must be taken at the beginning of the program and may be taken concurrently with other courses.

EXC 602A Field Experience: Special Education
(3 quarter units)
EXC 602B Field Experience: Inclusive Settings
(3 quarter units)
EXC 602C Field Experience Seminar
(1.5 quarter units)
EXC 604 Exceptionality and Diversity in the Classroom
TED 615 Foundations of Education
TED 611 Educational Psychology
EXC 620 Positive Behavior Support
EXC 630 Assessment and Instructional Planning for Special Needs Students
(Meets one night per week over two months)
TED 621A Language Development Methods for the Elementary School
(Prerequisite: TED 615)
or
TED 623 Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)
TED 621B Reading and Language Arts for the Elementary School
(Prerequisites: TED 615 and TED 621A)
EXC 650 Consultation and Collaboration for Special Education

Generic Core Exam

Note: The subject matter examination must be taken and passed before the candidate can register for the Advanced Specialization courses.

Advanced Specialization Requirements:

(9 courses; 31.5 quarter units)

EXC 644 Reading and Language Arts Methods for Special Education (one night per week over two months)
EXC 644A Field Study: Reading and Language Arts Methods for Special Education
(1.5 quarter units)
EXC 660 Instruction of Learners with Mild/Moderate Disabilities
EXC 660A Field Study: Instruction of Learners with Mild/Moderate Disabilities
(1.5 quarter units)
EXC 615 Technology for the Disabled
EXC 615A Field Study: Technology for the Disabled
(1.5 quarter units)
EXC 685A Student Teaching: Mild/Moderate Disabilities - I
EXC 685B Student Teaching: Mild/Moderate Disabilities – II
Exit Portfolio
Exit Exam Apply for Mild/Moderate Level Credential
Must obtain Clearance to take CLAD 627 to apply for CLAD Certificate.
CLD 627 Methodology for Cross-Cultural Instruction
(taken after completion of student teaching)
Apply for CLAD Certificate.
PRELIMINARY LEVEL I EDUCATION
SPECIALIST CREDENTIAL:
MODERATE/SEVERE DISABILITIES WITH
CLAD CERTIFICATE
(780-357) (-767 Single) (-768 Multiple)
(22 courses; 84 quarter units)

Prerequisites
(2 courses; 9 quarter units)
HED 502 Health Education Across the Curriculum
EDT 608 Computer-Based Technology in the Classroom

Generic Core Requirements
(11 Courses, 43.5 quarter units)
Field experience courses must be taken at the beginning of the
program and may be taken concurrently with other courses.

EXC 602A Field Experience: Special Education
(3 quarter units)
EXC 602B Field Experience: Inclusive Settings
(3 quarter units)
EXC 602C Field Experience Seminar
(1.5 quarter units)
EXC 604 Exceptionality and Diversity in the Classroom
TED 615 Foundations of Education
TED 611 Educational Psychology
EXC 620 Positive Behavior Support
EXC 630 Assessment and Instructional Planning for Special
Needs Students (One night per week over two months)
TED 621A Language Development Methods for the Elementary
School 
(Prerequisite: TED 615)
or
TED 623 Language Development Methods for Secondary and
Middle Schools
TED 621B Reading and Language Arts Methods for the Elementary
School 
(Prerequisite: TED 615 and TED 621A)
EXC 650 Consultation and Collaboration for Special Education

Generic Core Exam
Note: The subject matter examination (CSET) must be taken and passed
before the candidate can register for the Advanced Specialization courses.

Advanced Specialization Requirements
(9 courses; 31.5 quarter units)

EXC 644 Reading and Language Arts Methods for Special
Education (one night per week over two months)
EXC 644A Field Study: Reading and Language Arts Methods for
Special Education
(1.5 quarter units)
EXC 665 Instruction of Learners with Moderate/Severe
Disabilities
EXC 665A Field Study: Instruction of Learners with
Moderate/Severe Disabilities
(1.5 quarter units)
EXC 615 Technology for the Disabled
EXC 615A Field Study: Technology for the Disabled
(1.5 quarter units)
EXC 690A Student Teaching: Moderate/Severe Disabilities - I
EXC 690B Student Teaching: Moderate/Severe Disabilities – II
Exit Exam
Apply for Moderate/Severe Level Credential
Must obtain Clearance to take CLD 627 to apply for
CLAD Certificate
CLD 627 Methodology for Cross-Cultural Instruction
(taken after completion of student teaching)

Apply for CLAD Certificate

PRELIMINARY LEVEL I EDUCATION
SPECIALIST: MILD/MODERATE DISABILITIES
WITH CONCURRENT BCLAD OPTION
MULTIPLE OR SINGLE SUBJECT
CREDENTIAL
(26 courses; 100.5 quarter units TED)
(780-356) (-362 Single) (-363 Multiple)
(27 courses; 105 quarter units BTE)
(780-356) (-364 B Single) (-365 B Multiple)

Prerequisites
(2 courses; 9 quarter units)
HED 502 Health Education Across the Curriculum
EDT 608 Computer-Based Technology in the Classroom

Generic Core Requirements
(TED 11 courses; 43.5 quarter units)
(BTE 12 courses; 48 quarter units)
Field experience courses must be taken at the beginning of the
program and may be taken concurrently with other courses.

EXC 602A Field Experience: Special Education
(Prerequisites: TED 615 and TED 621A)
EXC 602B Field Experience: Inclusive Settings
(Prerequisites: TED 615 and TED 621A)
EXC 604 Exceptionality and Diversity in the Classroom
TED 615 Foundations of Education
TED 611 Educational Psychology
EXC 620 Positive Behavior Support
EXC 630 Assessment and Instructional Planning for Special
Needs Students

Generic Core Exam
Multiple Subject
(2 courses; 9 quarter units)

TED 622A Curriculum and Instruction I: History, Social Science,
P.E., Visual and Performing Arts (MS)
(Prerequisites: TED 615 and TED 621A)
or
TED 622B Curriculum and Instruction II: Math and Science (MS)
(Prerequisites: TED 615 and TED 621A)
or
BTE 622A Curriculum and Instruction I: History, Social Science,
P.E., Visual and Performing Arts (BTE) (MS)
(Prerequisites: TED 615 and TED 621A)
or
BTE 622B Curriculum and Instruction II: Math and Science (BTE)
(Prerequisites: TED 615 and TED 621A)
School of Education

Single Subject
(2 courses; 9 quarter units)

TED 625A Curriculum and Development for Secondary and Middle Schools (SS)
(Prerequisites: TED 615 and TED 623)

and

TED 625B Instruction and Classroom Management for Secondary and Middle Schools (SS)
(Prerequisites: TED 615, TED 623 and TED 625A)

or

BTE 625A Curriculum and Development for Secondary and Middle Schools (BTE) (SS)
(Prerequisites: TED 615 and TED 623)

and

BTE 625B Instruction and Classroom Management for Secondary and Middle Schools (BTE) (SS)
(Prerequisites: TED 615, TED 623 and BTE 625A)

Note: Proof of subject matter competence before the candidate can register for the Advanced Specialization courses.

Advanced Specialization Requirements
(11 courses; 39 quarter units)

EXC 644 Reading and Language Arts Methods for Special Education (one night per week over two months)

EXC 644A Field Study: Reading and Language Arts Methods for Special Education (1.5 quarter units)

EXC 660 Instruction of Learners with Mild/Moderate Disabilities

EXC 660A Field Study: Instruction of Learners with Mild/Moderate Disabilities (1.5 quarter units)

EXC 615 Technology for the Disabled

EXC 615A Field Study: Technology for the Disabled (1.5 quarter units)

TED 629 Student Teaching Seminar (3 quarter units)

TED or BTE 630A Pre-practicum Field Experience (General Education)

TED or BTE 630B Student Teaching (General Education)

EXC 685A Student Teaching: Mild/Moderate Disabilities - I

EXC 685B Student Teaching: Mild/Moderate Disabilities - II

Exit Portfolio - Multiple or Single Subject Credential, Special Education

Exit Exam - Mild/Moderate Level I Credential

■ PRELIMINARY LEVEL I EDUCATION SPECIALIST: MODERATE/SEVERE DISABILITIES WITH CONCURRENT BCLAD OPTION MULTIPLE OR SINGLE SUBJECT CREDENTIAL
(26 courses; 100.5 quarter units TED)

(780-357) (-362 Single) (-363 Multiple)

(27 courses; 105 quarter units BTE)

(780-357) (-364 B Single) (-365 B Multiple)

Prerequisites
(2 courses; 9 quarter units)

HED 502 Health Education Across the Curriculum

EDT 608 Computer-Based Technology in the Classroom

Generic Core Requirements
(TED 11 courses; 43.5 quarter units)

(BTE 12 courses; 48 quarter units)

Field experience courses must be taken at the beginning of the program and may be taken concurrently with other courses.

EXC 602A Field Experience: Special Education (3 quarter units)

EXC 602B Field Experience: Inclusive Settings (3 quarter units)

EXC 602C Field Experience Seminar (1.5 quarter units)

EXC 620 Exceptionality and Diversity in the Classroom

BTE 612 History and Culture of Latinos in the United States (BTE only)

TED 615 Foundations of Education

TED 611 Educational Psychology

EXC 620 Positive Behavior Support

EXC 630 Assessment and Instructional Planning for Special Needs Students

TED 621A Language Development Methods for the Elementary School
(Prerequisite: TED 615)

or

TED 623 Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)

TED or BTE 621B Reading and Language Arts Methods for the Elementary School
(Prerequisite: TED 615 and TED 621A)

EXC 650 Consultation and Collaboration for Special Education

Generic Core Exam

Multiple Subject
(2 courses; 9 quarter units)

TED 622A Curriculum and Instruction I: History, Social Science, P.E., Visual and Performing Arts (MS)
(Prerequisite: TED 615 and TED 621A)

and

TED 622B Curriculum and Instruction II: Math and Science (MS)
(Prerequisite: TED 615 and TED 621A)

or

BTE 622A Curriculum and Instruction I: History, Social Science, P.E., Visual and Performing Arts (BTE) (MS)
(Prerequisite: TED 615 and TED 621A)

and

BTE 622B Curriculum and Instruction II: Mathematics and Science (BTE) (MS)
(Prerequisite: TED 615 and TED 621A)

or
Single Subject
(2 courses; 9 quarter units)

TED 625A  Curriculum and Development for Secondary and Middle Schools (SS)  *(Prerequisites: TED 615 and TED 625)*

and

TED 625B  Instruction and Classroom Management for Secondary and Middle Schools (SS)  *(Prerequisites: TED 615, TED 623 and TED 625A)*

or

BTE 625A  Curriculum and Development for Secondary and Middle Schools (BTE) (SS)  *(Prerequisites: TED 615 and TED 623)*

and

BTE 625B  Instruction and Classroom Management for Secondary and Middle Schools (BTE) (SS)  *(Prerequisites: TED 615, TED 623 and BTE 625A)*

Note: Proof of subject matter competence before the candidate can register for the Advanced Specialization courses.

Advanced Specialization Requirements
(11 courses; 39 quarter units)

EXC 644  Reading and Language Arts Methods for Special Education (one night per week over two months)

EXC 644A  Field Study: Reading and Language Arts Methods for Special Education  (1.5 quarter units)

EXC 665  Instruction of Learners with Moderate/Severe Disabilities

EXC 665A  Field Study: Instruction of Learners with Moderate/Severe Disabilities  (1.5 quarter units)

EXC 615  Technology for the Disabled

EXC 615A  Field Study: Technology for the Disabled  (1.5 quarter units)

TED 629  Student Teaching Seminar  (3 quarter units)

TED or BTE 630A  Prepracticum Field Experience (General Education)

TED or BTE 630B  Student Teaching (General Education)

EXC 690A  Student Teaching: Moderate/Severe Disabilities - I

EXC 690B  Student Teaching: Moderate/Severe Disabilities - II

Exit Portfolio - Multiple or Single Subject Credential

Exit Exam - Moderate/Severe Level I Credential

Special Education Internships

(721)
A limited number of special education internships are available through partnerships with public school districts. The internship program is intense and students must be selected to participate. Contact your regional special education lead faculty for inquiries about available internships.

Special Education Internship

■ PRELIMINARY LEVEL I
EDUCATION SPECIALIST CREDENTIAL:
Mild/Moderate or Moderate/Severe Disabilities with CLAD Certificate
(20 courses; 76.5 quarter units)

Pre-service Coursework
(5 courses; 19.5 quarter units)

EXC 602A  Field Experience: Special Education  (3 quarter units)

EXC 602B  Field Experience: Inclusive Settings  (3 quarter units)

EXC 604  Exceptionality and Diversity in the Classroom

HED 502  Health Education Across the Curriculum

EDT 608  Computer Based Technology in the Classroom

Internship Coursework Generic Core
(8 courses; 34.5 quarter units)

EXC 655A  Professional Induction Seminar (cohort)  (3 quarter units)

TED 615  Foundations of Education

TED 611  Educational Psychology

EXC 620  Positive Behavior Support

EXC 630  Assessment and Instructional Planning for Special Needs Students

TED 621A  Language Development Methods for the Elementary School  *(Prerequisite: TED 615)*

or

TED 623  Language Development Methods for Secondary and Middle Schools  *(Prerequisite: TED 615)*

TED 621B  Reading and Language Arts Methods for the Elementary School

EXC 650  Consultation and Collaboration for Special Education

*At this point the generic core exam must be successfully completed for advancement in the program.

Advanced Specialization Requirements
(6 courses; 18 quarter units)

EXC 644  Reading and Language Arts Methods for Special Education (one night per week over two months)

EXC 644A  Field Study-Reading and Language Arts Methods for Special Education  (1.5 quarter units)

EXC 660  Instruction of Learners with Mild/Moderate Disabilities

EXC 660A  Field Study: Instruction of Learners with Mild/Moderate Disabilities  (1.5 quarter units)

or

EXC 665  Instruction of Learners with Moderate/Severe Disabilities

School of Education
School of Education

EXC 665A Field Study: Instruction of Learners with Moderate/Severe Disabilities
EXC 615 Technology for the Disabled
EXC 615A Field Study: Technology for the Disabled (1.5 quarter units)

*At this point students must successfully complete the exit exam, the intern teaching experience and the RICA exam. Then an application can be filed for the Preliminary Education Specialist Credential.

Post-Internship Coursework

CLD 627 Methodology for Cross-Cultural Instruction
*At this point the application for the CLAD Certificate may be filed. TOTAL OF 76.5 QUARTER UNITS FOR COMPLETION.

Special Education Internship

■ PRELIMINARY LEVEL I EDUCATION SPECIALIST CREDENTIAL: MILD/MODERATE OR MODERATE/SEVERE DISABILITIES WITH CONCURRENT BCLAD OPTION MULTIPLE OR SINGLE SUBJECT CREDENTIAL
(TED 24 courses; 93 quarter units)
(BTE 25 courses; 97.5 quarter units)

Pre-service Coursework
(5 courses; 19.5 quarter units)

EXC 602A Field Experience: Special Education (3 quarter units)
EXC 602B Field Experience: Inclusive Settings (3 quarter units)
EXC 604 Exceptionality and Diversity in the Classroom
TED 621B Reading and Language Arts Methods for the Elementary School
(Prerequisites: TED 615 and TED 621A)
HED 502 Health Education Across the Curriculum

Internship Coursework Generic Core
(9 courses; 39 quarter units)

EXC 655A Professional Induction Seminar (cohort) (3 quarter units)
EDT 608 Computer-Based Technology in the Classroom
TED 611 Educational Psychology
EXC 620 Positive Behavior Support
EXC 630 Assessment and Instructional Planning for Special Needs Students
TED 621A Language Development Methods for the Elementary School
(Prerequisite: TED 615)

or
TED 623 Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)
BTE 622B Curriculum and Instruction II: Mathematics and Science (MS)
(Prerequisites: TED 615 and TED 621A)

or
TED 625A Curriculum and Development for Secondary and Middle Schools (SS)
(Prerequisite: TED 615 and TED 623)
TED 622A Curriculum and Instruction I: History, Social Science, PE, Visual and Performing Arts (MS)
(Prerequisites: TED 615 and TED 621A)

or
TED 625B Instruction and Classroom Management for Secondary and Middle Schools (SS)
(Prerequisite: TED 615, TED 623 and TED 625A)
EXC 650 Consultation and Collaboration for Special Education

*At this point the generic core exam must be successfully completed for advancement in the program.

Advanced Specialization Requirements
(6 courses; 18 quarter units)

EXC 644 Reading and Language Arts Methods for Special Education (one night per week over two months)
EXC 644A Field Study-Reading and Language Arts Methods for Special Education (1.5 quarter units)
EXC 660 Instruction of Learners with Moderate/Severe Disabilities
EXC 660A Field Study: Instruction of Learners with Mild/Moderate Disabilities (1.5 quarter units)

or
EXC 665 Instruction of Learners with Moderate/Severe Disabilities
EXC 665A Field Study: Instruction of Learners with Mild/Moderate Disabilities
EXC 615 Technology for the Disabled
EXC 615A Field Study: Technology for the Disabled (1.5 quarter units)

*At this point students must successfully complete the special education exit exam. The special education intern teaching experience and the RICA exam.

Post-Internship Coursework
(TED 4 courses; 16.5 quarter units)
(BTE 5 courses; 21 quarter units)

TED 615 Educational Foundations
TED 629 Student Teaching Seminar
TED 630A Pre-Practicum Field Experience
TED 630B Student Teaching General Education
BTE 612 History and Culture of Latinos in the United States (BTE students only)

*At this point the student must successfully pass the multiple or single subject exit portfolio. An application can be filed for the multiple or single subject credential and the Preliminary Education Specialist Credential.

TOTAL OF 93 QUARTER UNITS FOR COMPLETION OF TED CREDENTIAL, 97.5 IF EARNING BTE CREDENTIAL.
PROFESSIONAL LEVEL II EDUCATION SPECIALIST CREDENTIAL

In California’s new credential structure, Professional Level II preparation is intended to enable new teachers to apply their Preliminary Level I preparation to the demands of professional positions while also fostering advanced skills and knowledge. The emphasis of the professional preparation program is to move special educators beyond the functional aspects of teaching to more advanced knowledge and reflective thinking about their roles in providing effective instruction and an environment for student success.

Admission Requirements

All applicants for admission must provide National University with the following documents:

• Formal application to the University
• Valid Preliminary Level I Education Specialist Credential
• CTC form CL777.1 from the applicant’s employer verifying that the applicant is employed in a full-time special education position
• Verification from the applicant’s employer that the current position has a probable duration of two years
• Verification that the student has maintained a minimum of a 2.5 grade point average on a 4.0 scale for graduate work
• All students must complete a credentials packet and be interviewed by a credential advisor within the first 30 days of enrollment.
• All students must enroll in electronic portfolio.

Recommendation for Professional Level II Education Specialist Credentials

In order to be recommended for a California Professional Level II Education Specialist Credential in Mild/Moderate or Moderate/Severe Disabilities, student must show:

• A minimum of two years of successful, full-time teaching experience in the public schools or private schools of equivalent status, as verified by the applicant’s employer
• Successful completion of the program (course work and approved non-University activities) for the Professional Level II credential within five years. Students must maintain a 3.0 grade point average
• Successful completion of the exit process with assigned University supervisor, including examination of electronic portfolio and passing grade on exit exam
• Submission of any required applications and fees
• Completion of any needed credential clearing courses.

Scheduling

All courses are scheduled by an advisor. EXC 656 can be waived only with the approval of a full-time faculty member. EXC 655A must be the first course taken in the program without exception.

Required Course Work

PROFESSIONAL LEVEL II EDUCATION SPECIALIST: MILD/MODERATE DISABILITIES

(780-358)
(5 courses; 18 quarter units)

EXC 655A Professional Induction Seminar (3 quarter units)
EXC 656 Best Practices for Special Needs Students
Students may substitute approved non-University activities for this class. Only full-time faculty members may approve course equivalence.
EXC 657 Community Resources and Transition
EXC 659 Advanced Specialization in Mild/Moderate Disabilities
EXC 655B Exit Seminar (Portfolio required)
(1.5 quarter units)

Exit Process - Exam
Apply for Mild/Moderate Level II Credential

PROFESSIONAL LEVEL II EDUCATION SPECIALIST: MODERATE/SEVERE DISABILITIES

(780-359)
(5 courses; 18 quarter units)

EXC 655A Professional Induction Seminar Plan (3 quarter units)
EXC 656 Best Practices for Special Needs Students
Students may substitute approved non-University activities for this class. Only full-time faculty members may approve the course equivalence.
EXC 657 Community Resources and Transition
EXC 659 Advanced Specialization in Moderate/Severe Disabilities
EXC 655B Exit Seminar (Portfolio required)
(1.5 quarter units)

Exit Process - Exam
Apply for Moderate/Severe Level II Credential

Certificate Programs

(770)

● CLAD Certificate

(768) (767)

Previously credentialed teachers who want to become authorized to teach English Language Development and Specially-Designed Content Instruction delivered in English can earn a CLAD certificate by meeting the state of California requirements.

Requirements for the Certificate

(18 quarter units)

To receive a CLAD certificate, students must complete at least 18 quarter units at National University. They must also:

• Possess an appropriate prerequisite credential
• Complete the four courses listed below

Required Courses

(4 courses; 18 quarter units)

To receive a CLAD certificate, students must complete all course work within seven years with a 3.0 GPA. Grades of “D” and “F” are not accepted.
CLAD certificate classes have been approved as a set by the CCTC. No course work is accepted in transfer from another university for this program and no substitutions are allowed. Students must hold a valid credential to be granted a certificate.

TED 615 Foundations of Education (MS/SS)
TED 605 The Diverse Classroom (MS/SS)
TED 621A Language Development Methods for the Elementary School (MS)
    (Prerequisite: TED 615)

or

TED 623 Language Development Methods for Secondary and Middle Schools (SS)
    (Prerequisite: TED 615)

CLD 627 Methodology for Cross-Cultural Instruction * (MS/SS)
    (Prerequisites: TED 615; TED 621A or TED 623)
* Applicable only for CLAD certificate.

Additional Requirements for the Certificate

Certificate Application Information

After completing their course work successfully, students must meet with a credential advisor to complete and submit the Commission on Teacher Credentialing application form for the multiple/single subject certificate. The University issues an official C-19 letter of completion from San Diego.

In order to avoid matriculation or scheduling errors, students must meet with a credential advisor within 30 days of enrollment.

● Educational Technology Certificate
(778)
(5 courses; 22.5 quarter units)

These courses can be applied to the MS in Educational Technology and include credential clearing courses (EDT 608 and 655).

EDT 608 Computer Based Technology in the Classroom
EDT 610 Technology-Supported Global Learning
EDT 655 Issues and Trends in Educational Technology
EDT 660 Multimedia and Interactive Technologies
EDT 612 Curriculum Design and Research Using Technology

● Teachers Using Technology Certificate
(779)
(5 courses; 22.5 quarter units)

EDT 600 Evaluating and Researching Information on the Internet
EDT 604 The Effect of Technology on Teaching
EDT 620 Instructional Media and Technology in the K-12 Classroom
EDT 630 Using the Internet to Enhance K-12 Learning Environments
EDT 612 Curriculum Design and Research Using Technology
School of Engineering and Technology

Interim Dean, Shahram Azordegan
Ed.D. Leadership, Mississippi State University

168 Degrees Offered
168 Faculty
169 Undergraduate Degree Programs
171 Graduate Degree Programs

Defining the Future of Higher Education for Adult Learners

NATIONAL UNIVERSITY™
## Degrees Offered

### Undergraduate Degree

**Bachelor of Science**  
*with Major in:*  
- Computer Science  
- Software Engineering

### Graduate Degrees

**Master of Science**  
*Fields of Study:*  
- Computer Science  
- Environmental Engineering  
- Software Engineering  
- Wireless Communications

* denotes program also offered or partially offered online.

**Note:** Not all online programs or courses are offered in entirety via Internet.

**Note:** Not all courses or programs listed in this catalog are available at every learning facility.

Various undergraduate minors are available in some degree programs.

## Faculty

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FOR FURTHER INFORMATION  
contact The School of Engineering and Technology in San Diego at **(858) 642-8482**
Mission Statement

The mission of the School of Engineering and Technology is to provide women and men with the skills and foundations for life-long learning and growth to prepare them for careers and advancement in engineering, technology, and related fields. The School of Engineering and Technology seeks to educate graduates who demonstrate leadership, innovation, and service to the global community.

Undergraduate Degree Programs

BACHELOR OF SCIENCE (B.S.) (620)

General Education Program Requirements

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 units, students must complete at least 4.5 units at the upper division level and 4.5 units in diversity enriched course work. A plus [+] indicates a diversity enriched offering. All undergraduate students working toward any associate or bachelor’s degree must meet the University diversity requirement.

National University has general education requirements in the following seven areas:

AREA A: ENGLISH COMMUNICATION
(minimum 15 quarter units)

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
(minimum 4.5 quarter units)

AREA C: INFORMATION LITERACY
(minimum 4.5 quarter units)

AREA D: ARTS AND HUMANITIES
(minimum 13.5 quarter units)

AREA E: SOCIAL AND BEHAVIORAL SCIENCES
(minimum 13.5 quarter units)

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES
(minimum 6 quarter units required [Note: one science lab is required])

AREA G: MODERN LANGUAGE
(minimum 9 quarter units)
(Students may satisfy this area by passing a competency test in any second language. They also may satisfy this requirement with 9 quarter units of computer languages, such as C, C++, Java, and Visual Basic. Students who satisfy competency by examination must still meet the overall general education unit requirement. Students enrolled in a degree program under the School of Engineering and Technology can elect to take general education electives to fulfill this requirement.)

AREA A-G: GENERAL EDUCATION
(minimum 4.5 quarter units)

Courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.

MAJOR IN COMPUTER SCIENCE (620-201)
Faculty Advisor: Peter Dey • (858) 642-8486 • pdey@nu.edu

The Computer Science Major prepares students for a career in software development. A rigorous academic foundation is complemented by realistic programming assignments. Emphasis is placed on developing both the technical and design skills necessary to begin and enhance an individual’s career.

Requirements for the Major

To receive a Bachelor of Science in Computer Science, students must complete at least 180 quarter units. 76.5 quarter units must be completed at the upper-division level, and 45, including the senior project courses (CS 425A,B,C), must be taken in residence at National University. In the absence of transfer credit, students may need to take additional general electives to satisfy the total units for the degree.

Preparation for the Major

(4 courses; 18 quarter units)

- CST 208B Calculus for Computer Science
  (Cross-listed with MTH 220)
  (Prerequisite: MTH 215)
- CST 206B Discrete Structures and Logic Design
  (Cross-listed with MTH 325)
  (Prerequisite: MTH 215)
- CST 341 Introduction to Computer Architecture
  (Prerequisite: CST 206B or permission of the instructor)
- CST 342 Computer Architecture
  (Prerequisite: CST 341)
- CST 242 Introduction to Programming Concepts and Methods

Requirements for the Major

(15 courses; 67.5 quarter units)

- CST 317 Programming in C++
  (Prerequisite: CST 242)
- CST 330C Object Oriented Programming in C++
  (Prerequisite: CST 317)
- CST 335 Data Structures and Algorithms
  (Prerequisite: CST 330C)
- CS 422C Principles of Database Design
- CST 427 Programming in Java
- IS 443 Local Area Network Technologies
- CST 430 Programming Languages
  (Prerequisite: CST 330C)
- CST 350 Computer Ethics
- CST 400 Operating System Theory and Design
  (Prerequisite: CST 330C)

Select any three from the following four courses:

- CS 421A Compiler Design
  (Prerequisite: CST 330C)
- CST 450 Artificial Intelligence
- CST 452 Human-Computer Interaction
- CST 440 Advanced Programming in Java
  (Prerequisite: CST 427)
Project

Note: Students cannot enroll in CS 425A without completing all major courses and maintaining a 2.5 GPA.

CS 425A Computer Science Laboratory I
(Prerequisite: All previous major courses and 2.5 GPA)

CS 425B Computer Science Laboratory II
(Prerequisite: CS 425A)

CS 425C Computer Science Laboratory III
(Prerequisite: CS 425B)

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING

(620-205)
Faculty Advisor: Dr. Thomas Gatton • (858) 642-8484 • tgatton@nu.edu

The Major in Software Engineering gives students the opportunity to develop basic skills in the Software Engineering Body of Knowledge (SWEBOK) defined by the Software Engineering Institute of Carnegie Mellon University. Students receive core competency courses in the areas of software requirements, design, construction, project management and evolution. Foundation courses in computing fundamentals, human factors and application domains prepares the student for later courses providing skills in software ethics, processes, quality, modeling metrics, tools and development environments and documentation. The student is prepared for this major with a general education of courses in mathematics, natural sciences, social sciences and business studies.

Upon completion of this degree, students will be prepared to hold positions such as software engineer, computer programmer, software developer, internet programmer, database administrator and computer analyst. They will have the knowledge and skills to evaluate the competencies and performance of themselves and other team members and assume a leadership position in the software development organization.

Degree Requirements

To receive a Bachelor of Science degree with a Major in Software Engineering, students must complete at least 180 quarter units as shown below, 45 of which must be completed in residence at National University, and 76.5 of which must be completed at the upper-division level. The following courses are specific degree requirements. In the absence of transfer credit, additional general electives may be necessary to satisfy the total units for the degree.

The following courses must be completed in the General Education Program Requirements:

Preparation for the Major:
(8 courses; 30 quarter units)

MTH 210 Introduction to Probability and Statistics
(Prerequisite: Placement Evaluation)

SCI 101 General Chemistry

SCI 101A General Chemistry Lab
(1.5 quarter units)
(Prerequisite: SCI 101)

CST 208B Calculus for Computer Science
(Prerequisite: MTH 215)

CST 206B Discrete Structures and Logic Design
(Prerequisite: MTH 215)

CST 242 Introduction to Programming Concepts and Methods

SCI 104 General Physics

SCI 104A General Physics Lab
(1.5 quarter units)
(Prerequisite: SCI 104)

Upper Division Requirements for the Major
(13 courses; 59.5 quarter Units)

CST 341 Introduction to Computer Architecture

SE 410 Introduction to Software, Engineering and Ethics

CST 317 Programming in C++
(Prerequisite: CST 242)

CST 330C Object Oriented Programming in C++
(Prerequisite: CST 317)

CST 422C Principles of Database Design

CST 427 Programming in Java

SE 420 Software Processes and Management

SE 421 Introduction to the Unified Process and Modeling Language (UML)
(Prerequisite: CST 242)

SE 425 Software Architecture and Development
(Prerequisite: CST 331C)

SE 445 Database and Applications Development
(Prerequisite: CST 422C)

SE 450 Human-Computer Interface Engineering
(Prerequisite: CST 427)

SE 460 Software Quality and Testing
(Prerequisite: CST 330C)

SE 465 Introduction to UNIX/LINUX

Project
(2 courses; 9 quarter units)

SE 486A Software Engineering Laboratory I

SE 486B Software Engineering Laboratory II
(Prerequisite: SE 486A)

Upper Division Electives
(1 course; 4.5 quarter units)

To fulfill unit requirements, students may select from the upper-division electives below:

Note: It is strongly recommended that students take CST 335 to fulfill the upper division elective requirement.

CST 335 Data Structures and Algorithms
(Prerequisite: CST 330C)

CST 342 Computer Architecture
(Prerequisite: CST 341)

CST 430 Programming Languages
(Prerequisite: CST 330C)

CST 400 Operating System Theory and Design
(Prerequisite: CST 330C)

CS 421A Compiler Design
(Prerequisite: CST 335)

CST 450 Artificial Intelligence

CST 440 Advanced Programming in Java
(Prerequisite: CST 427)
School of Engineering and Technology Minors

▲ Minor in Computer Science
(460)

Requirements for the Minor
(6 courses; 27 quarter units)

Students can complete a Minor in Computer Science to fulfill requirements for a bachelor’s degree with a major other than computer science. Prior to enrolling in the minor, students must complete the prerequisite courses listed below or waive them through challenge exams.

Program Prerequisites
(4 courses; 18 quarter units)

MTH 215 College Algebra and Trigonometry.  
(Prerequisite: Placement Evaluation)

CST 208B Calculus for Computer Science  
(Cross-listed with MTH 220)  
(Prerequisite: MTH 215)

CST 206B Discrete Structures and Logic Design  
(Cross-listed with MTH 325)  
(Prerequisite: MTH 215)

CST 242 Introduction to Programming Concepts and Methods

Required Courses
(6 courses; 27 quarter units)

CST 317 Programming in C++  
(Prerequisite: CST 242)

CST 330C Advanced Programming in C++  
(Prerequisite: CST 317)

CST 335 Data Structures and Algorithms  
(Prerequisite: CST 330C)

CST 341 Introduction to Computer Architecture  
(Prerequisite: CST 206B or permission of the instructor)

In addition, students can take any two Computer Science courses provided that they have met the required prerequisites, except the project sequence CS 425A/B/C.

Graduate Degree Programs

■ MASTER OF SCIENCE (M.S.). IN COMPUTER SCIENCE
(720-609)
Faculty Advisor: Peter Dey • (858) 642-8486 • pdey@nu.edu

The Master of Science in Computer Science (MSCS) program will provide students with the mathematical foundations and information processing skills required for solving real world problems.

National University’s MSCS program not only prepares students in the theoretical and practical aspects of solving complex computing problems but we also develop other essential communication skills. MSCS graduates are able to clearly discuss issues and answers with both technical and non-technical audiences. In addition to those communication skills, every part of our curriculum develops “people skills,” ethics and standards of professionalism.

The curriculum is built upon mathematical foundations, programming techniques and problem solving skills. The unique combination of these skills enables graduates of National’s MSCS program to be of immediate benefit in the computing industry. The rigorous mathematical foundations of the proposed MSCS program has 4 primary goals: (1) to provide a clear understanding of scope and limitations of computational models, (2) to facilitate acquisition of skills in subsequent courses of the program, (3) to facilitate logical discussion of concepts underlying problem solving skills, (4) to facilitate acquisition and employment of new skills required by the introduction of new technology. National University’s approach to teaching in the MSCS program allows our graduates to immediately become highly productive members of a real-world computing team.

Mathematical Foundations

The MSCS curriculum provides models of computation that remain appropriate over long periods of time. Our foundation courses equip students from a wide variety of backgrounds with the essential and necessary tools to be successful in the computing industry.

Skill Courses

The set of primary courses are designed for acquisition of marketable skills. These courses reflect the demands in the computer industry:

• Analysis, modeling, design, and development
• Computational tools and processes
• Operating Systems and Languages
• Data Base Systems
• Applications Systems and Graphical User Interfaces
• Artificial Intelligence
• Computational Problem Solving

Integration

The capstone project class is an integrating mechanism to provide realistic experience for the student. It is a two-month project solving a real problem for a real client against a time deadline using all available tools and resources as students work together in teams. This component addresses the need to integrate a broad range of technologies and skills. Students are given the opportunity to crystallize the ideas learned earlier and to implement comprehensive systems across an organization.

Career Tracks

With National’s MSCS program, faculty, students, and employers will be assured that our graduates are proficient in analytical and critical thinking skills, they have a sense of professionalism, and are instilled with a strong set of values essential for success in the computer science field. This program reflects current and future industry needs and graduates from the MSCS program are trained and prepared to assume a leadership role in the field.

Admission Requirements

It is assumed that candidates seeking admission to the program possess a baccalaureate degree in Computer Science (CS) or a closely related area. Non-CS students should fulfill the program prerequisites either through additional equivalent coursework or waiver through a course challenge exam in order to satisfy the program prerequisites.

Curriculum Requirements for MSCS Degree Program

The MSCS program requires the completion of 54 quarter units of graduate course work. Where appropriate, a maximum of 13.5-quarter units of graduate work completed at another accredited institution may be transferred to meet stated requirements in the program. The degree program consists of ten courses plus the two-
part MSCS graduate project (two courses; 4.5 quarter units each) that
cannot be taken until all other courses have been completed.

Program Prerequisites
(8 courses; 36 quarter units)

Students with non-computer baccalaureate degrees can qualify for
admission to the program by choosing one or a combination of the
following options:

Complete the following prerequisite courses:

MTH 215 College Algebra and Trigonometry
(Prerequisite: Placement Evaluation)
CST 208B Calculus for Computer Science
(Prerequisite: MTH 215)
CST 206B Discrete Structures and Logic Design
(Prerequisite: MTH 215)
CST 242 Introduction to Programming Concepts and Methods
CST 317 Programming in C++
(Prerequisite: CST 242)
CST 330C Object Oriented Programming in C++
(Prerequisite: CST 317)
CST 335 Data Structures and Algorithms
(Prerequisite: CST 330C)
CS 422C Principles of Data Base Design

or
Gain permission of the lead faculty of the MSCS program based on
equivalent coursework supported by verifiable documented proof.

Program Core Requirements
(12 courses; 54 quarter units)

Students are encouraged to take the following 12 courses in the order
of presentation.

CS 610 Mathematical Foundations
SE 620 Principles of Software Engineering
SE 621 Software Tools and Processes
SE 625 Basic Software Architecture
CS 630 Operating Systems
CS 640 Database Systems
CS 650 Programming Languages
(Prerequisite: CS 610)
CS 655 Compilers and Interpreters
(Prerequisite: CS 610)
CS 660 Artificial Intelligence
(Prerequisite: CS 610)
CS 670 User Interface Engineering
(Prerequisites: CS 610, CS 630, SE 620, CS 650)
CS 686 Computer Science Project I
(Prerequisites: All core requirements)
CS 687 Computer Science Project II
(Prerequisite: CS 686)

MASTER OF SCIENCE (M.S.) IN
ENVIRONMENTAL ENGINEERING
(720-813)
Faculty Advisor: Hassan Badkoobehi • (858) 642-8487 • hbadkoob@nu.edu

The Master of Science in Environmental Engineering (MSENE) program is designed to provide participants with the requisite
mathematical foundations and environmental processing skills for
solving real world problems.

Environmental Engineers are the technical professionals who identify
and design solutions for environmental projects. Environmental

engineers provide safe drinking water, treat and properly dispose
wastes, maintain air quality, control water pollution, and remediate
sites contaminated due to spills or improper disposal of hazardous
substances. Environmental Engineers monitor the quality of the air,
water, and land as well as develop new and improved means to
protect the environment.

Although many people are concerned about the state of our
environment, environmental engineers are the people who do things
to protect it from damage and to correct existing problems.
Environmental engineers possess the scientific and technical
knowledge to identify, design, build, and operate systems that make
modern society possible.

This discipline involves traditional engineering components such as
mathematics, physics, chemistry, and engineering design.
Environmental engineering education and practice also includes a
range of other disciplines, such as biology, microbiology, ecology,
public health, geology, meteorology, economics, political science, and
computer science. To address the spectrum of issues facing the
environment, environmental engineers are broadly educated, as well
as technically trained.

Program Description

Environmental Engineering today addresses problems in the water,
air and soil environments. The following subjects are now
considered essential in the background of an environmental
engineer: ecology, microbiology, ground water, solid waste, farm
waste, noise pollution, environmental impact assessment,
environmental legislation and environmental modeling and
remediation of site contamination with spills or improper disposal of
hazardous materials. Environmental engineers are technical
professionals who possess the scientific knowledge to identify,
design, build and operate systems that protect the environment from
the impact of human activities, and as such, make modern society
possible.

Environmental engineers are needed in both the private and public
sectors. They are employed by engineering consulting firms that
work in environmental pollution control, industries that need to
comply with pollution emission and discharge regulation, private
and municipal agencies that supply drinking water, and treat and
dispose wastes, government agencies that monitor and regulate
waste discharges and air emissions, private and government
laboratories, and universities that conduct environmental research,
international agencies that transfer knowledge to developing
countries, and public-interest groups that advocate environmental
protection.

Admission Requirements

Candidates seeking admission to the program must possess a
baccalaureate degree in good academic standing from a regionally
accredited institution. The non-engineering student will find the
technical focus of many courses challenging but essential for an
increasing number of functional technical positions in environmental
engineering organizations. These students should fulfill the program
prerequisites or waive them through a course challenge exam.
Students considering this program should contact the program lead
faculty prior to enrollment.

Curriculum Requirements

The Master of Science in Environmental Engineering requires
completion of 54 quarter units of graduate course work. Where
appropriate, students can transfer a maximum of 13.5 quarter units
of graduate work completed at another regionally accredited
institution to meet stated requirements in the program. Students should refer to the section on graduate admission requirements for specific information regarding application and matriculation.

Students are expected to possess or to have access to a computer outside of National University to work on projects both on and off campus. Given the nature of instructional technology, the following courses are not required, but highly recommended for students who need basic skills in computer technology and electronic research:

IS 301 Management Information Systems

Program Prerequisites
5 courses; 19.5 quarter units

Applicants with a Bachelor of Arts or Bachelor of Science degree from non-engineering curriculum should make up the deficiencies. Students will be required to take prerequisite courses based on undergraduate major and deficiencies from the following list:

SCI 101 General Chemistry
SCI 101A General Chemistry Laboratory
SCI 335 Environmental Science
or
SCI 330 Ecology
MS 205 Introduction to Quantitative Methods For Business
CST 208B Calculus for Computer Science

These courses may be waived if their equivalents have been completed at the undergraduate level with a grade of "C" or better, or if applicants have successfully passed a challenge exam. Students who have a Bachelor of Science in Engineering or related field are exempt from the prerequisite courses.

Program Core Requirements
10 courses; 45 units

ENE 601 Environmental Engineering Laboratory
(Prerequisite: SCI 101 or SCI 101A)
ENE 602 Environmental Microbiology and Biological Treatment
(Prerequisite: SCI 330 or SCI 335)
ENE 603 Unit Processes of Environmental Engineering
(Prerequisite: MS 205 or CST 208B)
ENE 604 Engineering Aspects of Environmental Engineering
Quality Control
ENE 605 Foundation of Air Pollution Engineering and Equipment Design
ENE 606 Principles of Water and Wastewater Engineering and Treatment
(Prerequisite: MS 205 or CST 208B)
ENE 607 Toxic and Hazardous Waste Remediation Analysis and Solid Waste Recovery
(Prerequisite: SCI 101 or SCI 101A)
ENE 608 Site Assessment and Environmental Remediation Methodologies
ENE 609A Master’s Research Project I
(Prerequisites: All core requirements)
ENE 609B Master’s Research Project II
(Prerequisite: ENE 609A)

Program Electives
2 courses; 9 units

For electives, students should select two of the following 600 level courses offered in the School of Business and Information Management or those offered in the School Engineering and Technology:

QMT 601 Quantitative Methods in Business
TM 601 Data Mining Tools: Managing Technology for Competitive Advantage
TM 602 Emerging Trends in E-Business Implementation Management
HRM 640 Managing Human Resources
EB 620 Principles of Electronic Commerce
MGT 630 Global Business Environment
SE 620 Principles of Software Engineering

MASTER OF SCIENCE (M.S.) IN SOFTWARE ENGINEERING
(720-603)
Faculty Advisor: Thomas Gatton • (858) 642-8484 • t.gatton@nu.edu

Software Engineering is a discipline that offers tools, processes, methods, and techniques to develop and maintain quality software to solve problems. Software engineering can very well be considered the practical application of computer systems knowledge in the design and development of software, and the required associated documentation, operation, and maintenance. The computer industry is in desperate need of technically qualified people in software engineering. The Master of Science in Software Engineering is designed to prepare graduates to be pioneers and leaders in software engineering. They are trained to be practitioners in the essential areas of software architecture, computer system engineering, computer-based media, common object-oriented engineering, database design, and software development and project management.

The Master of Science in Software Engineering program provides professional education in both system and software development using state-of-the-art design and development methods in compliance with standards set by IEEE, Department of Defense, and the Software Engineering Institute at Carnegie Mellon University. This program is designed to provide students with the management and technology skills in the discipline of software engineering. Graduates are prepared for positions in (1) database management systems (DBMS), (2) software project management, (3) software development, and (4) software quality assurance.

Degree Requirements
To receive a Master of Science in Software Engineering, students must complete at least 54 quarter units of graduate work. A total of 13.5 quarter units of graduate credit may be granted for equivalent graduate work completed at another institution, as it applies to this degree, and provided the units were not used in earning another advanced degree. Students should refer to the section in the graduate admission requirements for specific information regarding application and matriculation.

Program Prerequisites
5 courses; 22.5 quarter units

Candidates for the program must possess a Bachelor of Science with a Major in Computer Science. Students holding non-computer baccalaureate degrees can qualify for admission to the program by choosing any one or a combination of the following options.

Complete all prerequisite courses

Gain permission of the lead faculty of the MSSE program based on an interview and supported by verifiable documented proof of proficiency in each specific area of the prerequisite courses.

The five prerequisite courses prepare students in the areas of programming, database design, and operating systems.
The Master of Science in Wireless Communications (MSWC) program is a professional degree that integrates communication techniques, problem solving strategies, simulations skills and mathematical foundations with hands-on training required to solve real world problems in telecommunications.

The program is designed for professionals and managers to facilitate the learning and application of skills in the field of wireless communications. The program uses a distinctive and challenging curriculum that emphasizes multidisciplinary knowledge and integrates theory throughout applications and design concepts.

Classes combine lectures, case and hands-on studies, individual and team projects, research papers and participant presentations.

**Careers**

With National’s MSWC program, faculty, students, and employers will be assured that our graduates are proficient in analytical, technical and critical thinking skills, they have a sense of professionalism, and are instilled with a strong set of values essential for success in the wireless communications field. This program reflects current and future industry needs, and graduates from the MSWC program are trained and prepared to assume a leadership role in the field.

The MSWC arms students with the tools necessary to achieve professional success in both theoretical and practical aspects of communication fields. Graduates are equipped to seek employment in research organizations, computer centers, or wireless communications businesses and enterprises. This program also prepares students for further education in wireless communications enabling graduates to pursue Ph.D. studies, if they desire.

**Degree Requirements**

(12 courses; 54 quarter units)

The MSWC program requires the completion of 54-quarter units of graduate course work. Where appropriate, a maximum of 13.5-quarter units of graduate work completed at another accredited institution may be transferred to meet stated requirements in the program. The degree program consists of ten courses plus the two-part MSWC Master’s Research Project.

**Program Core Requirements**

(12 courses; 54 quarter units)

Students are encouraged to take the following 12 courses (54 quarter units) in the order of presentation. Courses WC 601 and WC 602 are foundation courses that must be completed before taking any other courses and the project courses.

**Program Prerequisites**

(2 courses; 9 quarter units)

WC 301 Linear Systems and Signals
WC 302 Probability and Random Processes in Engineering
or Gain permission of the lead faculty of the MSWC program based on equivalent coursework supported be verifiable documented proof.

**Foundation Courses**

(2 courses; 9 quarter units)

WC 601 Analog and Digital Communications Fundamentals
WC 602 Wireless Communications: Principles and Practice
(Prerequisite: WC 601)

**Skill Courses**

(8 courses; 36 quarter units)

WC 603 Wireless Networking: Architectures, Protocols and Standards
(Prerequisite: WC 602)
WC 604 Coding and Modulation for Wireless Communications
(Prerequisite: WC 602)
WC 605 Information, Privacy, and Security in Wireless Systems
(Prerequisite: WC 602)
WC 606 CDMA Wireless Standards and Applications
(Prerequisite: WC 602)
WC 607 Third-Generation (3G) Wireless Networks
(Prerequisite: WC 602)
WC 608 Engineering Software for Wireless System Development
(Prerequisite: WC 602)
WC 609 Communication Systems Modeling with Wireless Applications
(Prerequisite: WC 602)
WC 610 Next-Generation Wireless Infrastructures and Standards
(Prerequisite: WC 602)

**Integration Courses**

(2 courses; 9 quarter units)

WC 611A Master’s Research Project I
(Prerequisites: All core requirements)
WC 611B Master’s Research Project II
(Prerequisite: WC 611A)
Course Descriptions
### Prefix / Subject Area by National University School

#### School of Arts and Sciences

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Subject Area</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>Art</td>
<td>177</td>
</tr>
<tr>
<td>BIS</td>
<td>Interdisciplinary Studies</td>
<td>178</td>
</tr>
<tr>
<td>CD</td>
<td>Chemical Dependency</td>
<td>179</td>
</tr>
<tr>
<td>COM</td>
<td>Communications</td>
<td>181</td>
</tr>
<tr>
<td>ENG</td>
<td>English</td>
<td>186</td>
</tr>
<tr>
<td>ESM</td>
<td>Elementary Subject Matter</td>
<td>188</td>
</tr>
<tr>
<td>GS</td>
<td>Global Studies</td>
<td>191</td>
</tr>
<tr>
<td>HB</td>
<td>Human Behavior</td>
<td>192</td>
</tr>
<tr>
<td>HIS</td>
<td>History</td>
<td>193</td>
</tr>
<tr>
<td>HUM</td>
<td>Humanities</td>
<td>195</td>
</tr>
<tr>
<td>ILR</td>
<td>Information Literacy</td>
<td>196</td>
</tr>
<tr>
<td>IT</td>
<td>Instructional Technology</td>
<td>197</td>
</tr>
<tr>
<td>IS</td>
<td>Industrial Organization</td>
<td>195</td>
</tr>
<tr>
<td>LAS</td>
<td>Language Arts</td>
<td>199</td>
</tr>
<tr>
<td>LIT</td>
<td>Literature</td>
<td>200</td>
</tr>
<tr>
<td>MFA</td>
<td>Master of Fine Arts</td>
<td>204</td>
</tr>
<tr>
<td>MM</td>
<td>Multimedia</td>
<td>203</td>
</tr>
<tr>
<td>MSM</td>
<td>Multiple Subject Matter</td>
<td>204</td>
</tr>
<tr>
<td>MTH</td>
<td>Mathematics</td>
<td>204</td>
</tr>
<tr>
<td>MUS</td>
<td>Music</td>
<td>206</td>
</tr>
<tr>
<td>NG</td>
<td>Nursing</td>
<td>206</td>
</tr>
<tr>
<td>PHL</td>
<td>Philosophy</td>
<td>208</td>
</tr>
<tr>
<td>PS</td>
<td>Political Science</td>
<td>208</td>
</tr>
<tr>
<td>PSY</td>
<td>Psychology</td>
<td>210</td>
</tr>
<tr>
<td>SCI</td>
<td>Natural Sciences</td>
<td>212</td>
</tr>
<tr>
<td>SOC</td>
<td>Sociology</td>
<td>212</td>
</tr>
<tr>
<td>THR</td>
<td>Theater</td>
<td>213</td>
</tr>
</tbody>
</table>

#### School of Business and Information Management

| ACC    | Accounting                         | 177  |
| BIS    | Business                           | 179  |
| CJ     | Criminal Justice                   | 180  |
| CS     | Computer Science                   | 182  |
| CST    | Computing Sciences and Technology  | 182  |
| EB     | Electronic Business                | 183  |
| ECO    | Economics                          | 184  |
| EMB    | Executive Master in Business       | 185  |
| FIN    | Finance                            | 185  |
| FS     | Forensic Sciences                  | 208  |
| HC     | Health Care                        | 192  |
| HM     | Hospitality Management             | 194  |
| HRM    | Human Resources Management         | 194  |
| IS     | Information Systems                | 196  |
| ITM    | Information Technology Management  | 198  |
| LAW    | Law                                | 198  |
| LEO    | Organizational Leadership          | 199  |
| MGT    | Management                         | 191  |
| MKT    | Marketing                          | 202  |
| MS     | Management Science                 | 204  |
| OD     | Organizational Development         | 207  |
| PA     | Public Administration              | 207  |
| QMT    | Quantitative Business Methods      | 209  |
| SM     | Sports Management                  | 212  |
| TAX    | Taxation                           | 212  |
| TM     | Technology Management              | 215  |

#### School of Education

| BTE    | Bilingual Teacher Education        | 178  |
| CED    | Counselor Education                | 180  |
| CI     | Curriculum and Instruction         | 180  |
| CLD    | Cross-Cultural, Language and Academic Development | 181 |
| ED     | Education                          | 184  |
| EDA    | Educational Administration          | 184  |
| EDT    | Educational Technology             | 185  |
| ENC    | Special Education                  | 189  |
| HED    | Health Education                   | 193  |
| IL     | Instructional Leadership           | 195  |
| MAT    | Master of Arts in Teaching         | 199  |
| PED    | School Psychology                  | 207  |
| TED    | Teacher Education                  | 213  |

#### School of Engineering & Technology

| CS     | Computer Science                   | 181  |
| CST    | Computer Sciences & Technology     | 182  |
| ENE    | Environmental Engineering          | 186  |
| SE     | Software Engineering               | 211  |
| TM     | Technology Management              | 215  |
| WC     | Wireless Communications            | 216  |

### National University Course Numbering System

#### 100- to 200- Level Courses:
Lower-Division courses applicable to the Associate of Arts degree.

#### 300- to 400- Level Courses:
Upper-Division courses applicable to Bachelor degrees.

#### 500-Level Courses:
Courses which may be applicable as advanced upper division credit or as graduate credit, as specified by the requirements of each degree program.

#### 600-Level Courses:
Master’s level courses.

*Note: All courses are 4.5 quarter units unless otherwise specified.*

### National University AIME Courses Offered Online (no academic credit)

#### AIM 80
**Assisted Instruction in English**
(no academic credit)

Introductory course in the basics of sentences, paragraphs and essays to prepare students for ENG 100 Effective College English I. Taken by referral or placement. S/U grading only.

This is an online course with sixteen modules. Students are placed in the appropriate module based on the placement scores.

Modules 1-8 Basic Writing
Modules 9-16 Introduction to Composition

The maximum time for each module is one week. Students who begin with Module 1 must complete the course within sixteen weeks; students who begin with Module 9 must finish within eight weeks. Students who score into Module 9 may request to begin on Module 1 and adjust their deadline to sixteen weeks.

#### AIM 90
**Assisted Instruction in Mathematics**
(no academic credit)

Introductory course in the basics of mathematical concepts to prepare students for college-level mathematics. Beginning with arithmetic skills (real number representation and use, grouping symbols and word problems), the course progresses through basic algebra (methods of simplifying algebraic expressions, solving equations and inequalities, operations with exponents, monomials and polynomials and translating statements to symbols, analytic geometry, functions, sequences and series) and concludes with the fundamentals of two-dimensional geometry. Taken by referral or placement. S/U grading only.

This is an online course with 20 modules. Students are placed in the appropriate module based on the placement scores.

Modules 1-4 Pre-Algebra
Modules 5-8 Beginning Algebra I
Modules 9-12 Beginning Algebra II
Modules 13-16 Intermediate Algebra
Modules 17-20 Plane Geometry

Students may progress through the series at their own pace, though the maximum time for each module is two weeks. Students who begin with Module 1 must complete the course within forty weeks; students who begin with Module 17 must finish within eight weeks. Students may request to begin on an earlier module and adjust their deadlines accordingly.
ACC 201  
**Financial Accounting Fundamentals**  
A survey of basic accounting theory and the application of accounting principles, this course includes the recording and summarization of business transactions in the form of financial statements under the rules of "generally accepted accounting principles" (GAAP). It is designed for students who have little or no prior knowledge of financial accounting, this course corresponds to "Principles of Accounting I" at other colleges.

ACC 202  
**Managerial Accounting Fundamentals**  
(Prerequisite: ACC 201)  
This course is an overview of the use of financial accounting and cost accounting data for the design and preparation of reports to aid management in organizing, directing, controlling, and decision-making functions. The topics include the fundamentals of cost accounting, budgeting and responsibility accounting for cost and profit centers.

ACC 300  
**Applied Technology for Accountants**  
(Prerequisite: ACC 201)  
This course familiarizes accounting majors with the technological tools and resources needed for career opportunities in both financial and managerial accounting areas. Emphasized are the adaptation of computer accounting software to the specific needs of an enterprise, as well as the design and use of spreadsheet models to perform specialized accounting and finance-related tasks.

ACC 410A  
**Financial Accounting I**  
(Prerequisite: ACC 201)  
Often referred to as "Intermediate Accounting," ACC 410A is a comprehensive three-course sequence in financial accounting (as opposed to managerial accounting). The series (ACC 410A, 410B, and 410C) covers a substantial portion of the U.S. accounting standards known as GAAP (generally accepted accounting principles). In particular, ACC 410A provides an in-depth review of the accounting process and of the four principal financial statements. This course emphasizes revenue and expense recognition, along with the accounting for cash and receivables.

ACC 410B  
**Financial Accounting II**  
(Prerequisite: ACC 410A)  
The second course in a three-course sequence often referred to as "Intermediate Accounting." (See ACC 410A for a series description.) ACC 410B covers accounting for inventory, plant, property and equipment, intangible assets, intangible assets, investments, and current and long-term liabilities.

ACC 410C  
**Financial Accounting III**  
(Prerequisite: ACC 410A)  
The third and last course in a three-course sequence often referred to as "Intermediate Accounting." (See ACC 410A for a series description.) ACC 410C covers accounting for leases, pensions, income taxes, contributed and retained capital, earnings per share, and the statement of cash flows.

ACC 431  
**Advanced Accounting**  
An examination of advanced concepts of accounting for business combinations, with emphasis on the consolidation of parent/subsidiary balance sheet and income statement reporting. Also covers accounting for the formation, operation and liquidation of partnerships, as well as special reporting requirements for multinational entities.

ACC 432A  
**Taxation-Individual**  
An introduction to the theory and practice of federal income taxation of individuals, including income, deductions, exemptions, credits, capital gains, depreciation and deferred compensation plans. As a course requirement, students prepare Form 1040 income tax returns.

ACC 432B  
**Taxation-Business**  
An introduction to the theory and practice of federal income taxation of partnerships, subchapter S and subchapter C corporations. Students learn the use of tax research publications.

ACC 433A  
**Managerial Accounting I**  
(Prerequisite: ACC 202)  
A study of cost accounting principles and procedures, including job order costing, process costing, standard cost, variance analysis and variable and absorption costing. Covers managerial accounting topics including break-even analysis and budgeting.

ACC 433B  
**Managerial Accounting II**  
(Prerequisite: ACC 433A)  
A continuation of Managerial Accounting I, this course covers additional managerial accounting topics, including cost behavior using linear programming models, regression analysis, transfer pricing, performance measurement and capital budgeting techniques.

ACC 434  
**Government and Non-Profit Accounting**  
A study of the specialized accounting principles applicable to state and local governments and other non-profit organizations, with an emphasis on fund accounting principles used in the recording of assets, liabilities, equity, revenues and expenditures. Also covers the analysis and interpretation of financial statements of such governmental and nonprofit entities.

ACC 435A  
**Auditing I**  
(Prerequisites: ACC 410A)  
A study of financial statement audits by CPAs performed in accordance with AICPA generally accepted auditing standards. Topics include professional ethics, legal liabilities, the planning of audit engagements, internal control and its relationship to the nature, timing and extent of evidence-gathering procedures, EDP controls and audit sampling.

ACC 435B  
**Auditing II**  
(Prerequisite: ACC 435A)  
A continuation of ACC 435A, this course focuses on the auditing procedures of individual financial statement line items including cash, receivables, inventory, payables, long-term debt, equity balances and related income statement accounts. It also emphasizes the writing of auditor's reports, special reports and compilation reports in accordance with AICPA standards.

ACC 511  
**Advanced Accounting**  
This course is an examination of advanced concepts of accounting for business combinations, with emphasis on the consolidation of parent/subsidiary balance sheet and income statement reporting. Also covered are accounting for the formation, operation, and liquidation of partnerships, and special reporting requirements for multinational entities.

ACC 604  
**Managerial Accounting**  
(Prerequisite: ACC 201)  
A study of accounting concepts and reporting techniques applied in a management decision-making context. Students analyze accounting data from real-world case studies and present their analysis, conclusions, and recommendations. Managerial accounting models used by diverse enterprises in virtually all industrialized nations include cost accounting and the behavior of costs, budgeting, differential analysis, and responsibility accounting are examined. Reporting techniques involving the use of current spreadsheet and graphic presentation technology are presented.

ACC 650  
**Financial Accounting Theory**  
(Prerequisite: ACC 201)  
This course is an examination of financial accounting concepts, including accounting standards known as Generally Accepted Accounting Principles (GAAP) as practiced in the U.S., with emphasis on revenue recognition, asset valuation, financial statement presentation and disclosure.

ACC 652  
**Taxation for Investors and Managers**  
(Prerequisite: ACC 201)  
Theory and practice of federal income taxation of individuals, partnerships and corporations, including capital gains, depreciation, and deferred compensation rules and regulations are covered.

ACC 653  
**Strategic Cost Management**  
(Prerequisite: ACC 433A)  
Contemporary cost management concepts and procedures are examined with emphasis on strategic planning, budgeting, forecasting, and performance measurement and reward systems in decentralized organizational structures.

ACC 654  
**Accounting for Not-For-Profit Entities**  
(Prerequisite: ACC 201)  
This course examines specialized accounting principles applicable to not-for-profit entities including charitable organizations and local governments, with an emphasis on fund accounting theory and application.

ACC 655  
**Auditing and Internal Control**  
(Prerequisite: ACC 201)  
Financial statement audits and other assurance services performed by independent auditors in accordance with AICPA generally accepted auditing standards are examined, with emphasis on internal control principles and procedures.

ACC 657  
**Accounting Information Systems**  
(Prerequisite: ACC 201)  
The design and internal control perspectives of accounting information systems, including systems analysis, decision support systems, system implementation, and the audit of management information systems are studied.

ACC 658  
**International Accounting**  
(Prerequisites: ACC 410A and ACC 440B)  
Accounting standards and practices in industrialized European and Asian countries are compared with those in the context of U.S. GAAP and International Accounting Standards. Problems in consolidating financial statements prepared under disparate home-country standards are explored.
ART - Art

ART 100
Introduction to Art History
(Prerequisites: ENG 100/101)
A survey of the main periods and traditions in art history, with emphasis on the complex relationship between art and society. Explores traditions including the Renaissance, Gothic, Baroque, Rococo, classical, Neoclassicism, impressionism, expressionism, realism, fantasy, environment art, architecture, formalism and contemporary avant-garde forms.

ART 200
Visual Arts
Fundamentals of visual and applied arts presented through painting, photography, video, or other media. Emphasis is determined by instructor. Students develop an understanding of aesthetic values, learn how to handle materials and develop an understanding of formal, technical and conceptual issues. Students supply some laboratory materials.

ART 200A
Visual Arts Laboratory
(Prerequisite: ART 200)
The laboratory portion of Visual Arts, in which students focus on hands-on work.

ART 315
Film as Art
(Prerequisites: ENG 100/101)
A survey of the art of cinema from the silent period to the present, with emphasis on the social construction, distribution and consumption of film in historical context. Examines basic film techniques and theories and systematically explores diverse film styles and genres. Focuses on elements of film such as lighting, editing and cinematography. Develops awareness of film as a complex artistic text. Establishes a basis by which students can make their own aesthetic judgments. In addition to contemporary mainstream films, students view classic, independent, experimental and foreign films.

ART 323
Modern Art
(Prerequisites: ENG 100/101)
An introduction to the major movements, styles and artists from Romanticism to Post Modernism. Examines how themes of Modern Art reflect the social, historical and cultural events of the period.

ART 329
World Art +
(Prerequisites: ENG 100/101)
The fundamentals of visual and applied arts from a global perspective. Focuses on the art of India, China, Japan, Pre-Columbian Central and South America, Native North America, Oceania and Australia, Africa and the Middle East. Also covers the accelerated changes in world art since 1945 and diversity issues related to world art.

ART 400
Expressive and Integrative Arts
(Prerequisites: ART 200, MUS 100, MSM 301, PSY 301 or equivalents)
Emphasizes the California Standards in the areas of dance and theater and builds on prior learning in music and the visual arts. The course prepares the student to integrate all these areas into daily instruction in grades K-8. The course emphasizes recognition of cultural diversity through activities in the arts as well as a basic knowledge of content areas for planning appropriate cross-curricular activities. RAMS students must take this course in conjunction with ART 400A Expressive and Integrative Arts Practicum.

ART 400A
Expressive and Integrative Arts Practicum
(Prerequisites: ART 200, MUS 100, MSM 301, PSY 301 or equivalents)
This practicum course accompanies ART 400 Expressive and Integrative Arts. The practicum provides the opportunity for students to script and stage in an elementary school classroom one performance which includes music, dance, theater and art.

BIS - Interdisciplinary Studies

BIS 490
Interdisciplinary Studies Seminar
This eight week capstone course compares and analyzes how knowledge is produced across disciplinary boundaries by integrating primary areas of study within the program: language and literature, history and the social sciences, the sciences, and fine and performing arts. Students come together having taken six upper-division electives from these areas to compare and analyze the different approaches, modes of inquiries, historical perspectives and methodologies that define the academic disciplines they have been exposed to. The instructor determines the seminar topic. Students choose a topic, which may be new or may derive from a paper project/topic from a previous discipline-specific course that intersects with the seminar theme, and expand it to an integrated research project that addresses the topic from the perspectives of at least three disciplinary vantage points. This course develops skills that are relevant to a wide variety of academic and professional environments: (1) effective reading and research at college level; (2) argument development and logical reasoning; and (3) clearly structured and organized writing of a substantive nature.

BTE - Bilingual Teacher Education

BTE 612
History and Culture of Latinos in the U.S.
An examination of historical, cultural and social characteristics of major Latino groups in the U.S. Reviews the following issues: contributions Latinos have made to American society, the cultural conflicts experienced by these groups, the implications of such conflict on American society and the effects of changing demographic, migration and immigration patterns. Analyzes the legal, political and social movements that influenced the social/cultural status of Latinos in the U.S. Taught in language of emphasis.

BTE 621B
Reading and Language Arts Methodology for Elementary Schools
(Prerequisites: TED 615, TED 621A)
This course provides Multiple Subject Candidates with research-based methods and strategies for designing and implementing a balanced and comprehensive program of systematic instruction in reading, writing and language arts aligned with the state adopted English Language Arts Academic Content Standards for Students and the Reading/Language Arts Framework. Course content is organized into four Reading Instruction Competency Assessment (RICA) domains. Taught in language of emphasis.

BTE 622A
Curriculum and Instruction I: History, Social Science, Physical Education, Visual and Performing Arts
(Prerequisites: TED 615, TED 621A)
BTE 622A focuses on multiple subject curriculum development and teaching History, Social Science, Physical Education, Visual and Performing Arts using State of California content standards. Content-specific teaching practices, lesson design, learning environments and assessment of student learning are emphasized to provide access to the curriculum for all students. Taught in language of emphasis.

BTE 622B
Curriculum and Instruction II: Mathematics and Science
(Prerequisites: TED 615, TED 621A)
BTE 622B focuses on multiple subject curriculum development and teaching math and science using State of California content standards. Content-specific teaching practices, lesson design and assessment of student learning are emphasized to provide access to the curriculum for all students. Taught in language of emphasis.

BTE 624
Content Area Literacy for Secondary and Middle Schools
(Prerequisites: TED 615, TED 623)
This course is aligned with the California Board of Education adopted academic content standards in English Language Arts and the Reading/Language Arts Framework for student teachers. English, English language learners (ELLs) and students with special needs is designed to assist Single Subject Credential Candidates in developing the background and skills necessary to teach literacy in the content areas to middle/junior and/or senior high school students in the culturally and linguistically diverse classrooms in the California public schools. Taught in language of emphasis.

BTE 625A
Curriculum Development for Secondary and Middle Schools
(Prerequisites: TED 615, TED 623)
This course integrates the California K-12 academic content standards with effective curriculum development principles for diverse learners. Through guided field activities, teacher candidates will access student background information for the purpose of designing and reflecting upon long and short term planning that enables engaged student learning and provides access to the curriculum for all learners. Taught in language of emphasis.

BTE 625B
Instruction and Classroom Management for Secondary and Middle Schools
(Prerequisites: TED 615, TED 623 and BTE 625A)
This course builds on the curricular principles established in BTE 625A by incorporating within a well-designed lesson plan, instructional strategies and related classroom management principles. The class also provides strategies for dealing with unproductive student behavior. Taught in language of emphasis.

BTE 630A
Beginning Student Teaching
(Not: Does not grant graduate level credit)
TED 630A comprises the first month of the full-day, full-time, semester-long Student Teaching experience, in which candidates are placed with certified field supervisors. Candidates must successfully complete four components in their supervised Beginning Student Teaching: (1) school-site and classroom orientation including school personnel interviews, (2) onsite classroom observations, (3) lesson plan design and presentation, each component within the context of fulfilling (4) professional responsibilities. Candidates also attend TED 629 Student Teaching Seminar, which integrates theory and practical approaches to real-life situations experienced by candidates during TED 630A. Note: The grade assigned for the course will be either satisfactory or unsatisfactory.

BTE 630B, BTE 630C, BTE 630D
Student Teaching
(Prerequisite: BTE 630A)
Student Teaching TED 630 B, C, D comprises the
second, third and fourth months of the full-day, full-time semester-long Student Teaching experience. Candidates are placed with certified teacher supervisors and are required to successfully complete four components: (1) Classroom responsibilities, (2) lesson plan design and presentation, (3) off-site classroom observations, each component within the context of fulfilling (4) professional responsibilities.

Multiple-subject candidates spend eight weeks in both a K-2 and a 3-6 classroom (non-traditional programs may vary). One of the two assignments is with a certified Field Supervisor. Single-subject candidates experience teaching a minimum of four academic periods a day in two grade levels; a minimum of three of four periods must be in their designated academic area. Candidates complete BTE 629 Student Teaching Seminar (as begun in BTE 630A), which integrates theory and practical approaches to real-life situations experienced by candidates during BTE 630 B,C,D. Note: The grade assigned for the course will be either satisfactory or unsatisfactory.

**BTE 660 The Bilingual Child**
(Prerequisite: Passing competency test with a score of 3.5 or above in the language of emphasis)
An introduction to research, theory and practices related to the learning and development of the bilingual, bi-cognitive child. Examines theories on culture, cognition, bilingualism, biculturalization and psycholinguistics of a positive self-esteem and academic achievement. Gives candidates the skills necessary to understand and assess the cognitive and linguistic developmental stages of bilingual, bicultural children. Raises consciousness and sensitivity to the effects of culture conflict on the academic achievement of bilingual children.

**BTE 661 Sociolinguistics**
(Prerequisites: BTE 662 and passing competency test with 3.5 or above in the language of emphasis)
An examination of the development of language within the socio-cultural context. Covers the significant role of language in culture transmission and social/political control and the role of code-mixing and code-switching as a communication system in a multilingual, multicultural society and linguistic registers. Examines the social factors of language and its importance in social interaction. Also provides the necessary skills to teach in a cross-cultural and linguistically diverse classroom. Assists students in analyzing language proficiency and understanding the variations found in languages.

**BTE 662 Comparative Linguistics**
(Prerequisite: Passing competency test with a score of 3.5 or above in the language of emphasis)
An examination of the structure, phonology and morphology of the language of emphasis and English. Compares and contrasts the structure of the two languages and addresses the linguistic problems in the transfer of errors from L1 to L2. Includes strategies for teaching English as a second language. Provides candidates to understand both first and second language acquisition. Also provides candidates with the skills necessary to understand the structure and form of the two languages and to plan the teaching of linguistic problems in the transition period of language acquisition.

**BTE 664 Advanced Theory and Research in Bilingual Education**
(Prerequisite: Passing competency test with a score of 3.5 or above in the language of emphasis)
A seminar in research and studies that have been conducted on bilingual students. Assesses and evaluates models of bilingual programs. Also provides an opportunity to compare and contrast research conducted on bilingual education.

Students critique the strengths and weaknesses of research studies.

**BTE 665 Advanced Grammar and Composition**
(Prerequisite: Passing competency test with a score of 3.5 or above in the language of emphasis)
Teaches advanced skills in composition and grammar, including writing skills, through the use of the computer lab. Provides the opportunity to use word processing programs in English and in the language of emphasis to compose and edit work. Students acquire the necessary skills to write their term papers or thesis in the language of emphasis. Taught in the language of emphasis.

**BTE 667 Socio-Cultural Issues in Bilingual Education**
(Prerequisite: Passing competency test with 3.5 or above in the language of emphasis)
A seminar in issues that affect the socialization and enculturation of children in a multicultural society. Examines factors that affect the learning process, the role of the teacher as a change agent and institutional change in education. Provides the opportunity to critically analyze current political and social issues that affect the bilingual classroom. Helps students develop a personal philosophy of education.

**BTE 668 Survey of Children's Bilingual Literature**
(Prerequisite: Passing competency test with 3.5 or above in the language of emphasis)
A survey of children’s literature in both English and the language of emphasis. Provides effective strategies for fostering reading for enjoyment and understanding as well as critical skills for assessing literature for bicultural, bilingual students. Teaches a variety of ways to encourage students to read. Also gives teachers an opportunity to read and evaluate the books that are age- and grade-appropriate.

**BUS - Business**

**BUS 480 Integrated Business Policy**
(Capstone course)
This course provides students with the opportunity to apply the principles and concepts learned in each of their BBA program core courses to real world business situations. Students’ ability to integrate this knowledge and to apply and articulate critical analysis to cases and other assignments is among the key objectives of this course. Students must complete all BBA preparation and upper-division core courses before starting this capstone course. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

**BUS 500A Intermediate Algebra**
An introduction to quantitative methods for business graduate students with no previous exposure to the subject. It covers topics including algebraic operations, equations, graphs and functions, exponential and logarithmic functions, and an introduction to linear programming. No credit is awarded.

**BUS 500B Statistics**
An introduction to statistics for business graduate students with no previous exposure to the subject. It covers topics that include arranging data, constructing a frequency distribution, measures of central tendency, measures of variability, and probability distribution. No credit is awarded.

**BUD 500C Macro and Microeconomics**
An introduction to economics for business graduate students with no previous exposure to the subject, it covers topics including microeconomics, macroeconomics, and an introduction to management. No credit is awarded.

**BUS 501A Accounting Fundamentals**
An introduction to accounting for graduate students with no previous exposure to the subject, it covers accounting terminology and concepts and procedures used in preparing financial statements in accordance with U.S. accounting standards. No credit is awarded.

**BUS 501B Finance Fundamentals**
(Prerequisite: BUS 501A or ACC 201)
This course is an introduction to finance for graduate students with no previous exposure to the subject. Students learn how to analyze financial statements for decision-making. Also covers topics including time value of money concepts, working capital policy and short-term credit, and current asset management. No credit is awarded.

**CAL - Center for Adult Learner**

**CAL 600 Introduction to Adult Learning**
This course examines the fundamentals of andragogy, a theory of learning and methodological approach which is applicable to adults and their idiographic lifestyles within a societal context ever more culturally and linguistically diverse. Graduate students analyze theory, research, and practice as a basis for improving the learning environments of formal and non-formal adult education programs.

**CD - Chemical Dependency**

**CD 440 Drugs, Values and Society**
An examination of the history of substance use and abuse in the United States. Examines individual and institutional values that underpin chemically dependent behavior as well as socio-cultural factors, including media images, consumer product advertising, myths and stereotypes and subculture/life-style issues. Provides an overview of the social services structure, including outreach, education, prevention and treatment models.

**CD 601 Drugs in American Society**
A survey course intended for a general audience with diverse interests in the phenomenon of drug use and abuse. Topics include pharmacology, history, theories of drug abuse, treatment methods, special populations, education and prevention models and ethical, political, social and legal considerations. Open to any graduate students with approval of their school except those who have completed CD 640.

**CD 640 Addictions: Contexts and Treatment**
A comprehensive study of the theories, etiology, assessment, diagnosis and treatment of addictions. Also covers medical and legal aspects, education and prevention strategies; and HIV/AIDS issues for chemically dependent clients and their families.

**CED - Counselor Education**

**CED 600 Child and Adolescent Development**
A general human development course including biological, psychological, sociological and cultural factors, particularly as they apply to a school environment. Emphasizes ethnic, linguistic and cultural diversity as factors affecting development and learning. Field experience required.
Course Descriptions

CED 601A
Multicultural Counseling Skills
(Prerequisite: CED 611 with a B or better)
The third course in the counseling skills sequence. Students are exposed to a broad range of perspectives, while focusing on counseling in diverse settings. Multicultural counseling and crosscultural communication skills are addressed.

CED 601B
Consultation in School Counseling and Psychology
(Prerequisite: CED 601A with a B or better)
The fourth course in the counseling skills sequence. Students develop communication skills and knowledge base to provide indirect, consultation services to the schools, with emphasis on school safety, violence prevention and crisis intervention.

CED 602
Current Social Concerns
Study of social concerns that directly and indirectly affect the roles and functions of counselors. Examples of knowledge areas include: school safety, violence prevention, poverty, cultural diversity, homelessness, teen pregnancy, eating disorders, rape, child abuse, substance abuse, community gangs, AIDS and suicide. Field experience required.

CED 604
Orientation and Field Experience in PPS
(1.5 quarter units)
Students must take CED 604 either before beginning the program or concurrently with their first or second class. This course provides a PPS program overview, helps students establish a credential packet, provides field experience in school counseling and school psychology, and completes the admission process for the PPS programs. Upon successful completion of this course students receive final admission to the program and permission to enroll. The course is practical and pragmatic, using interviews and observations to give students experience with their future vocations. Field experience required.

CED 606
School Programs and Services
An overview of current school programs and services for both counselors and school psychologists. Designed to be didactic. Covers accepted and best practices in students' field of interest. Enables students to compare what they are learning to what they have seen in the schools in CED 604. Field experience required.

CED 610
Counseling: Theory and Practice
An examination of the basic theories of individual counseling and various techniques practiced by school counselors and school psychologists. Field experience required.

CED 611
Group Counseling
(Prerequisite: CED 610 with a B or better)
The second course in the counseling skills sequence. An examination of the basic theories of group counseling and various techniques practiced by school counselors and school psychologists. Field experience required.

CED 612
Career Development
A general examination of career development and career education literature, including theories and major concepts, career education programs and practices, resource materials and career counseling skills. Field experience required.

CED 613
Psycho-Educational Assessment
The use and interpretation of individual and group psycho-educational assessment instruments and appraisal methods in individual remediation, the development of preventive programs and the improvement of instructional programs. Field experience required.

CED 614
Legal, Ethical and Professional Issues
Consideration of legal, ethical, cultural and related professional issues as they affect the practice of counseling in the work setting of the counselor and school psychologist. Field experience required.

CED 615B
Research in Counseling and School Psychology
Study and application of major criteria in the critical evaluation of research in counseling. Discusses steps and methods in conducting evaluation research in counseling and human service settings. Surveys basic computer applications in program evaluation and related assessments.

CED 616A, B
Counseling Fieldwork - Elementary School
CED 617A, B
Counseling Fieldwork - Middle School
CED 618A, B
Counseling Fieldwork - High School
Actual experience applying the skills and knowledge from the program in a senior high school setting. Requires a minimum of 150 clock hours of supervised practice to be scheduled over a period of at least two months. Note: Grading is on a satisfactory/unsatisfactory basis. Students must maintain a grade of satisfactory throughout the practicum series.

CED 620
Fieldwork Seminar in School Counseling
(3 quarter units)
A seminar that students take concurrently with the CED fieldwork courses CED 616, CED 617, CED 618. In this seminar, students interact with the professor and other practicum students regarding cases and situations in their fieldwork. Students integrate learning from previous courses, develop self-assessment and peer supervision skills, practice case presentation and analysis and improve written and oral communication. Includes exposure to trends that affect the work of school counselors and career advisers.

CI - Curriculum and Instruction

CI 604
Global Perspectives in Curriculum
A basic foundation in the development and implementation of global programs and activities. Includes an overview of the purpose, scope and approaches to global education and demonstrates how teachers can use current electronic communication technology to globalize existing curriculum and instructional materials.

CI 606
Issues and Trends in Curriculum
Examines current curriculum practices from the point of view of an independent paradigm of global concerns, local needs and the development of the individual in a complex society. Curriculum is responsive to current issues in education and society, rather than of predetermined content.

CI - Criminal Justice

CJ 427
Introduction to Criminal Justice
This course describes and introduces the basic concepts and components of the criminal justice systems in the United States; provides a general consensus and summary of the CJ system, including the factors of crime, judicial process, police perspectives, corrections, probation and parole.

CJ 431
Criminology
This course exposes the students to the basic tenets of criminal behavior, the causative and contributory factors of behavior. It explores the general personality, intellectual and social perspectives of criminal behavior.

CJ 434
Survey of Forensic Sciences
An introduction to the forensic sciences. Includes topics such as forensic photography, firearms and tool mark identification, the examination of questioned documents, hair and fiber analysis, serology, instrumental analysis, forensic pathology and odontology and forensic psychology.

CJ 437
The Juvenile Offender
A study of the nature and control of juvenile delinquency. Examines patterns of delinquent behavior, factors of causation, juvenile law and the juvenile justice system. Students also learn policies and procedures in treatment and prevention.

CJ 441
Organized and White Collar Crime
This course will expose the students to elite and corporate deviance, the incidence and prevalence of white collar and organized crimes. The course explores the theoretical foundations of all types of occupational crimes, with a comparative, analytical global look at these crimes. It also exposes the students to the forms and causes of these crimes, the legal and law enforcement and societal responses to such crimes.

CJ 440
Corrections
An introduction to the field of corrections and the corrections continuum. Topics include contemporary theories of punishment, corrections and rehabilitation, local, state, federal and military confinement facilities and community alternatives to incarceration.

CJ 443
Current Issues in Law Enforcement
Using a seminar approach, this course focuses on current specific problems and issues within the law enforcement community. Topics may include police morale, the retention of sworn personnel and future trends in law enforcement.

CJ 446
Criminal Justice Management and Leadership
An analysis of the organization and management of criminal justice agencies. Discusses principles of supervision and motivation of personnel, management problems and solutions, decision-making and administration of policies and procedures.

CJ 448
Violence and Society
An exploration of methods, patterns and meanings of individual and collective violence. Focuses on gangs, terrorists and the assailant individual. Students analyze the causes of violence, attitudes toward violence and methods of controlling violence as well as the impact of gun control.

CJ 449
Research Methods
An introduction to conducting research in criminal justice-related fields. Students learn how to identify current problems in criminal justice, develop a practical research question, formulate hypotheses, identify appropriate resources to answer the research question and describe an appropriate research method to answer the research question.

CJ 451
Court Systems and the Judicial Process
A study of concepts and theories regarding the utilization, organization and management of the judicial process. Critically reviews the issues of fair
CJ 452 Criminal Law and Procedure
A survey of juridical philosophy and case study of common law and statutory crimes. Discusses historical development, theory, principles and functions of criminal law. Also covers elements of due process, rule of law and the role of the constitution in protecting rights.

CJ 456 Criminal Evidence
A study of the elements of criminal law as applied to various theories of criminal evidence to enhance understanding of the various issues facing prosecutors, criminal justice practitioners and law enforcement agents. This course will explore the application of evidentiary issues and its relationship to investigations and criminal conduct.

CJ 457 Minorities, Crime and Social Justice
A review of the criminological literature and theoretical applications of the law and criminal justice as seen from a racial, gender specific, class and ethnic orientation.

CJ 460 Principles of Investigation
An introduction to the practices and procedures involved in conducting civil and criminal investigations. Topics include learning about crimes and their elements, modus operandi, major goals of investigations, primary functions and responsibilities of investigating officers/agents and the investigator’s relationship with other individuals and agencies involved in an investigation.

CJ 464 Constitutional Law for Criminal Justice
A study of the fundamentals of the US Constitution, the rights and protections of the accused; an exploration of the case law and the judicial system. The rights and responsibilities of the police and citizenry.

CJ 465 Practicum in Criminal Justice
A practicum designed for students seeking field experience in law enforcement. Students receive academic guidance from criminal justice faculty and supervision at the field placement site. Typically, the practicum requires students to work a minimum of 100-150 hours under supervision. At the completion of the practicum, students are required to write an in-depth research paper about their experiences during their placements with coordination and support from their faculty advisor and field supervisor. Units are arranged and determined based on assignment and number of hours prearranged at the placement site. Students are evaluated on a satisfactory/unsatisfactory basis by the faculty and placement supervisor.

CJ 467 International and Domestic Terrorism
This course exposes the students to the basics of terrorism and its global impact

CJ 470 Supervised Criminal Justice Senior Project
Supervised senior project undertaken by students of criminal justice when they have completed all core courses in the program. Coordinated by full-time faculty and chaired by a criminal justice faculty member chosen by the student from previous courses taken within the program. Students select a committee and a viable topic in criminal justice to research and then meet with a committee member once a week for two months. Upon completion, students present their project to the committee, other faculty and peers in an open forum. Grading is by "H" (for Honors, "A" or better work), "S" (for Marginal, "C" level work) or "U" (Unsatisfactory, "D" or below). Accelerated study is not permitted with CJ 470. CJ 470 is two months in length. Students who do not complete the Senior Project within the two-month period are eligible, at the discretion of the instructor, to receive a grade of "K" with a maximum of a one-time, six-month extension. Students who do not complete the project at the end of the extension period will need to retake CJ 470. No grade of "I" can be given for this course.

CJ 490 Guided Study
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

CLD - Cross-cultural, Language and Academic Development (CLAD)

CLD 627 Methodology for Cross-Cultural Instruction
(CLAD Certificate Course only)
(Prerequisites: Possession of a credential approved by the California Commission on Teacher TESL 621A or TESL 623)
An examination of content-area instruction for English language learners. Covers strategies that foster English Language Development (ELD) lesson development, adaptation, and delivery. Also covers Specially Designed Academic Instruction in English (SDAIIE) and "instructional scaffolds" as well as "instructional conversations" to support ELD.

COM - Communications

COM 100 Introduction to Communications
An examination of the cultural, linguistic and institutional factors that shape even the most everyday communications. Through readings and course projects, introduces students to semiotics, rhetorical analysis and mass media theory.

COM 200 Effective Communication
An introduction to the principles and practices of spoken communication, with special emphasis on the skills needed to communicate effectively in the workplace. Topics include platform techniques, interpersonal communication strategies, cross-cultural approaches and small group methods.

COM 360 Representation and Diversity in the Media
(Prerequisites: ENG 100/101)
An exploration of the ways in which popular media represents our diverse and dynamic culture. Focuses particularly on images and narratives of race and gender on television, in the movies and in popular culture. Also examines the cultural forces that influence how such representations are produced and perceived, their political and behavioral consequences and various methods for analyzing and critiquing popular media.

COM 380 Democracy in the Information Age +
(Prerequisites: ENG 100/101)
A critical examination of the distribution of information and power in modern democracies. Covers the various theories of democratic participation and media responsibility and how they are measured against contemporary practices around the world. Explores the effect of such developments as television "news," popular access to video and electronic technologies and global electronic network on contemporary political and cultural discourse.

COM 385 Tale, Text and Hypertext
(Prerequisites: ENG 100/101)
An introduction to the range of theories analyzing the evolution of linguistic communication technologies, from oral to written to computer-based. Examines the consequences of these developments for culture, literature, science, politics, pedagogy and identity. Pays particular attention to the uses and effects of networked texts and hypertexts. Includes a project where students prepare hyper texts that can be "published" on the Internet.

COM 422 Technical Writing and Presentation
(Prerequisites: ENG 334A)
An advanced workshop for technical writers, that applies the principles covered in COM 200 and ENG 334A specifically to technical presentations for non-technical audiences. Focuses on writing styles appropriate for user manuals as well as oral presentations and offers training in platform skills, audio-visual techniques and other strategies needed to make technical information understood by business managers, end-users and the public.

COM 460 Media Ethics and the Law
(Prerequisites: ENG 100/101)
An advanced examination of issues of libel, slander, confidentiality, objectivity and impartiality for media professionals. Emphasizes the practical impact of the First Amendment on the communications field today and the possible consequences of the continuing debates over its interpretation. Highly recommended for those in or entering positions of responsibility in news, advertising and public relations organizations.

COM 490 Independent Study
(1.5-4.5 quarter units)
(Prerequisite: Approval of Instructor and Department Chair)
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

CS - Computer Science

CS 421A Compiler Design
(Prerequisite: CST 330C)
An introduction to the theory of programming language processors focusing on lexical analysis, syntax analysis and compile-time mechanics, including code generation and optimization, execution of interpretive representations and management of data structures.

CS 422C Principles of Database Design
A survey of principles, structure, analysis and techniques of database design and implementation. Topics include physical and logical design, normalization, database models, security and integrity.

CS 425A Computer Science Laboratory I
(Prerequisite: All the computer science course requirements with a GPA of 2.5)
A study of the software development life cycle. Emphasizes logical organization of system and communicating design through documentation suitable for generating a concrete implementation. Students construct an original project with practical applications applying software engineering concepts. This project includes program specifications, test plans and user documentation. Grading
is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

CS 425B
Computer Science Laboratory II
(Prerequisite: CS 425A)
A continuation of the student project. Student teams complete the internal specification and test plan in this course. Grading is by H (for Honors, B or better work), S (for Marginal, C level work) or U (Unsatisfactory, D or below).

CS 425C
Computer Science Laboratory III
(Prerequisite: CS 425B)
A continuation of the student project. Student teams complete the project in this phase. The project is coded, module-tested, system-tested and all documentation is completed. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

CS 610
Mathematical Foundations
A study of mathematical models of computation and theoretical foundations of computer science. Proof techniques, automata theory, Chomsky hierarchy, decidability and computational complexity are emphasized.

CS 630
Operating Systems
A study of relation between architectures and system software. Topics include process and memory management issues, multiprocessing, multithreading, inter-process communication, synchronization, distributed systems and real time systems. Resource allocation, computer security and related problems are considered. Scope and limitations of current Operating Systems.

CS 640
Database Systems
Design and implementation of database and knowledge based systems are studied using various data models, principles, structures, analysis and modern techniques. Topics include physical and logical design, normalization, security, integrity and models such as relational, entity-relationship, object oriented and semi-structured models. Scope and limitations of current database models.

CS 650
Programming Languages
(Prerequisite: CS 610 or permission of the instructor)
A study of programming language syntax, semantics and pragmatics. Principles of data types and structures are discussed. Programming language design and implementation issues are emphasized. Scope and limitations of programming language theories will be studied.

CS 655
Compilers and Interpreters
(Prerequisite: CS 610 or permission of the instructor)
A study of design and development of programming language translators. Study of lexical analysis, syntax, semantics, code generation and optimization. Scope and limitations of compiler theories will be studied.

CS 660
Artificial Intelligence
(Prerequisite: CS 610 or permission of the instructor)
A study of problem solving using modern artificial intelligence techniques. Examines the role of knowledge in problem solving. Concepts such as agents, search, production systems and natural language communication are studied. Experimental artificial intelligence systems are developed. Scope and limitations of artificial intelligence theories will be studied.

CS 670
User Interface Engineering
(Prerequisite: CS 610, SE 620, CS 630, CS 650 or permission of the instructor)
A study of techniques in design and implementation of user interfaces. Empphasis will be on effective human computer interaction strategies that meet human cognitive capabilities and organizational practices and processes.

CS 686
Computer Science Project I
(Prerequisite: Completion of all MSCS core courses or permission of the instructor)
A study of the software development practices. Emphasizes logical organization of system and communicating design through documentation suitable for generating a concrete implementation. Students construct an original project with practical applications utilizing software engineering concepts. This project includes requirements engineering, design, test plans and user documentation. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

CS 687
Computer Science Project II
(Prerequisite: CS 686)
A continuation of the student project. Student teams complete the project in this phase. The project is coded, module-tested, system-tested and all documentation is completed. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

CST - Computer Sciences and Technology

CST 205
Computer Applications I
An introduction to the use of microcomputers with the emphasis on word processing, spreadsheets, presentation and Internet browser software in the Windows operating system environment. This course offers a foundation for efficient use of microcomputer software in the business and educational environments.

CST 206B
Discrete Structures and Logic Design
(Prerequisite: MTH 215) (Cross-listed with MTH 220)
A theoretical foundation for computer science, including sets, counting techniques, functions, relations, ordering and equivalences, propositional logic, Boolean algebra and graph theory with application to trees.

CST 208B
Calculus for Computer Science
(Prerequisite: MTH 215) (Cross-listed with MTH 210)
Differential and integral calculus of one variable with applications. Topics include: origin and structure of the derivative, derivatives from first principles, standard differentiation including chain rule, exponential and log forms, graphing with derivatives, origin and structure of anti-derivative, undefinite integral, standard integration including substitution and parts, rectangle rule and numeric integration.

CST 242
Introduction to Programming Concepts and Methods
An introduction to modern programming design techniques. Examines problem decomposition, modern programming paradigms and methods. Emphasizes design methodologies, modular programming, software independence, abstract data types and fundamental control structures.

CST 317
Programming in C++
(Prerequisite: CST 242 or verifiable programming experience and permission of the instructor)
A developmental course in programming using the C++ language, including syntax and methodologies, program development, debugging functions, arrays structures and pointers.

CST 330C
Object Oriented Programming in C++
(Prerequisite: CST 317)
An introduction to the object-oriented programming (OOP) paradigm and advanced techniques of the C++ language. Provides an overview of object-oriented problem solving as well as OOP concepts such as abstract data types and classes, type hierarchies (subclasses), inheritance and polymorphism.

CST 335
Database and Information Systems
(Prerequisite: CST 330C)
An overview of database concepts, tables, stacks, queues, trees and graphs. Discusses various implementations of these data objects, programming styles and run-time representations. Also examines algorithms, graphics, algorithmic analysis and implementation of advanced data structures primarily utilizing C++.

CST 341
Introduction to Computer Architecture
(Prerequisite: CST 208B or permission of the instructor)
A survey of modern digital computing.

CST 342
Computer Architecture
(Prerequisite: CST 341)
An examination of advanced hardware design, analysis and programming with emphasis on the structure and function of the computer.

CST 350
Computer Ethics
An analysis of the values, ethics and ideologies in computing and their applications to current issues in computer industry within the contemporary socio-cultural setting. Focuses on ethical decision-making in computing matters. Through lectures, case study, debate and readings, students are helped to develop an ethical outlook on a wide variety of workplace issues in computing.

CST 400
Operating System Theory and Design
(Prerequisite: CST 330C)
An introduction to operating system concepts including implementation, processes, deadlocks, communication, multi-processing, multilevel memory management, file systems, protection, resource allocation and scheduling.

CST 423
Computer User Interface Design
(Prerequisite: CST 317)
A study of the fundamental techniques used in creating and manipulating computer images. Demonstrates the practical use of theories through several computer graphic applications projects.

CST 425
Programming in Java
Development of Java applications using control structures, graphical user interface components and multimedia applications.

CST 430
Programmable Languages
(Prerequisites: CST 330C)
A comparative study of programming languages. Syntax, semantics and pragmatics are considered. Language features that support software engineering are emphasized. Recent trends in programming language design and theory are studied.
Course Descriptions

CST 440
Advanced Programming in Java
(Prerequisite: CST 427)
A treatment of advanced programming techniques in Java using abstraction, encapsulation and inheritance. Development of applets and applications using client server technology, multithreading, event-driven programming techniques and multimedia.

CST 450
Artificial Intelligence
An introduction to problem solving using modern artificial intelligence techniques. Examines the role of heuristics in problem solving. Concepts such as agents, production systems and natural language communication are studied. Experimental artificial intelligence systems are developed.

CST 452
Human-Computer Interaction
An introduction to human-computer interaction models. A study of the techniques used in human-computer interface systems. Graphical User Interface systems and natural language processing will be considered.

EB - Electronic Business

EB 620
Principles of Electronic Business
Introduction and overview of Internet enabled business transactions from a managerial perspective. The course serves as foundation for the E-Business program and addresses E-Business strategies, Cyberlaw, Internet marketing, Internet infrastructure and security, E-Business applications and highly relevant emerging Internet business models.

EB 621
E-Strategies and Business Models
(Prerequisite: EB 620)
This course provides an in-depth analysis of Internet Business Models and E-Business Strategies. The course enables students to analyze the value and components of E-Business Models and the concept of strategic planning within the context of E-Business.

EB 622
E-Business Systems Development
(Prerequisite: EB 620)
The course discusses the business and computing issues and activities essential to developing successful E-Business systems from a combination of user, business and computing viewpoints. Specific design concepts will be applied to an advanced web-design or web-conceptualization during a class project. The course focuses on the principles of HTML, JAVA and XML application programming. Practical exercises will be conducted throughout the course.

EB 624
Internet Marketing
(Prerequisite: EB 620)
The course represents an in-depth analysis of marketing and advertising components of E-Business, strategic marketing decisions in the digital age and a study of successful marketing models. During the course, students create a strategic marketing plan for an Internet business.

EB 625
Electronic Payment Systems and Internet Security
(Prerequisite: EB 620)
The course introduces the various concepts of digital money and alternative electronic payment systems. Students explore the role of the banking system and the global monetary system from a managerial perspective. The course includes studies of security methods and systems including access control, firewalls, encryption, public key infrastructure, digital signatures, authentication and non-repudiation.

EB 635
E-Logistic and Supply-Chain-Management
(Prerequisite: EB 620)
The course offers a thorough introduction to private and public E-Marketplaces, demand chain structures and Supply Chain Management, procurement and fulfillment. Students will explore the associated digital infrastructure from an E-Business perspective. A special focus will be on current industry applications in this field. The course will offer processes and strategies for evaluation, design and implementation of those highly complex applications.

EB 638
E-Business Information and Knowledge Systems
(Prerequisite: EB 620)
The course introduces the data-information-knowledge-intelligence chain and its relevance to E-Business profitability and growth. It includes a study of the role and deployment of data models, database systems, data warehouses and business intelligence.

EB 640
Emerging Communication Technologies in E-Business
(Prerequisite: EB 620)
The course provides a study of telecommunication networks that support the digital global economy and E-Business. Networks are evaluated as enablers of strategy, growth and financial success. The course will also examine the impact of wireless communications and other emerging technologies on business management, operations and planning.

EB 650A
Master's Research Project I
(Prerequisite: Completion of all program core course requirements with a GPA of 3.0 or better.)
This course is the first part of the master’s research project. It focuses on the research and selection of an appropriate topic on one of the research applications of electronic business. Students develop the project in a three- to five-member group and utilize skills previously acquired in their respective core curriculum. This is a regular one-month course. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

EB 650B
Master's Research Project II
(Prerequisite: EB 650A)
A continuation of EB 650A. Students develop the project in a three- to five-member group. Students complete a detailed analysis and design of the project within the first two weeks of the course. After completing the project, students formally present their final product to a review panel for evaluation and grading. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

EB 656
Cyberlaw and E-Legal Issues
(Prerequisite: EB 620)
The course focuses on the global level and regulatory framework in which E-Business operates. It provides a study of current and proposed laws and regulations and their impact on E-Business. Emphasis is put on current legal issues relevant to start and operate various E-Businesses. Further emphasis lies on legal case studies from a business prospective.

ECO - Economics

ECO 203
Principles of Microeconomics
A study of price systems and market Structures, this course includes public policy, income distribution, the theory of the firm, forms of competition, and efficient resource allocation.

ECO 204
Principles of Macroeconomics
(Prerequisite: ECO 203)
This course is an examination of the scope and method of economic analysis. It includes economic resources, monetary system, income determination, and economic growth and stability.

ECO 490
Guided Study
This is individual study under direction of the instructor. It requires prior approval of appropriate academic department.

ECO 607
Economics for Managerial Decision-Making
(Prerequisite: ECO 203)
An overview of the fundamental concepts in microeconomics as they apply to managers in a global environment, this course covers the use of quantitative and computer applications to determine optimal levels of output, resource usage and capacity planning, application of appropriate decision-making models, and mathematical tools for optimal business decisions.

ECO 630
Global Economic Geography
(Prerequisite: ECO 203)
A survey of the global economy, this course examines how organizations identifying and inventorying resources in terms of manpower (demographics), industrial organization and development, sources of raw materials, and the current means of connectivity (e.g., language as well as telecommunication and transportation infrastructures). It includes exposure to various sources of global economic information, such as the “Country and Industry Report,” U.S. government reports, online computer information, and various private sources such as banks and credit card bureaus. Students compile reports that focus on country, region, and industry analysis of opportunity and prospects.

ECO 631
Global Trade Policy and Procedure
(Prerequisite: ECO 630)
An examination of the development and current status of U.S. and foreign trade policies and procedures, this course focuses on GATT, NAFTA, European Integration, and other emerging regional trading blocks. Examines the impact of trade and foreign operations caused by national and regional antitrust laws. It surveys the procedures necessary for government approval of importing and exporting, including the legal options available to facilitate and overcome difficulties and disputes in foreign trade.

ED - Education

ED 605B
Assessment Seminar
Capstone course for the professional administrative services credential program. It is a summative experience that is conducted in group and individualized settings. Reviews the project designed in the induction seminar. Students present projects developed throughout the program and integrate
Course Descriptions

Course work into the context of contemporary problem-solving administrative work. Emphasizes the application of knowledge and experience gained in the program to the future challenges facing educators. Note: Grading is on a satisfactory/unsatisfactory basis.

ED 614A Theories, Assessment and Application of Educational Leadership
A survey of theories, principles and concepts related to leadership, administration and management and ways to apply them to the field of education. Emphasizes application and implications for the educational leader/manager.

ED 615A School-Community Relations in a Diverse Society
An analysis of the various social and political forces that impact effective school-community relations with an emphasis on diversity. Covers methods of implementing educational change by mobilizing community support. Also covers cultural pluralism and its effect on school-community dynamics.

ED 616A Management of Educational Personnel: Social, Political and Policy Issues
An examination of the total operation of personnel and school management functions and staff development. Provides knowledge and understanding of personnel management and administration, personnel relations, personnel laws and procedures and collective bargaining.

ED 617 Philosophy, Theory and Governance of Educational Leadership
An overview of educational philosophies and theories as they relate to instructional leadership, effective schools and the curriculum. Surveys the history of public education in the United States, the organizational structure of public schools and current issues and trends in public education.

ED 618A Legal Aspects of Education
An introductory, overview course in educational law designed for those seeking the preliminary administrative services credential. The course focuses on those areas of school law most likely to be used by beginning school administrators.

ED 619A Financial Aspects of Education
Examines the financial policies and practices used in schools and districts. Emphasizes federal, state and local revenue sources as well as district and school budgeting and financial management procedures.

ED 620A Seminar in Educational Leadership
Addresses organizational development, the benefits of mobilizing human and fiscal resources, restructuring, creating a school environment that identifies institutional needs for diversity and the administrative tasks uniquely the domain of a vice-principal or principal. Students participate in consensus building and evaluate, analyze and develop new school programs and paradigms originating from the belief that organizations are political systems focusing on the improvement of instruction. Student must complete at least two courses in the preliminary administrative services credential prior to this seminar.

ED 620B Preliminary Administrative Field Experience
Supervised application of theoretical concepts in practical settings. Candidates complete a portfolio of administrative activities demonstrating competency in those areas of school administration required by the Commission on Teacher Credentialing for awarding of the preliminary administrative services credential. Stresses day-to-day administrative functions as well as policy analysis and implementation.

ED 620C Field Experience
A required field-experience course for candidates who are seeking only the MS in Educational Administration. Concentrates on eight educational categories and functions as an independent study. Note: This course does not meet the requirements for the preliminary administrative services credential in California. Candidates for the credential must take ED 620C. Grading is on a satisfactory/unsatisfactory basis.

ED 624A Supervision of Instruction: Curricula, Evaluation and Staff Development
An examination of how to improve educational programs in diverse classrooms. A study of human development as it relates to the curriculum. Covers basic concepts of curriculum development and measurement as well as policies of inclusion, examining the role of culture and cultural contact. Discusses various methods of evaluating instruction and pedagogical approaches as well as interrelationships among curricula, school organization and society. Also discusses administrative skills that promote equal learning opportunities in the classroom, including effective approaches to working with faculty, staff, parents and students who are culturally, ethnically and socio-economically diverse.

ED 670C Leadership, Technology and Its Applications
An administrative perspective on instructional technology. Surveys methods of using technology to improve administrative functions, funding sources for educational technology, knowledge and sensitivity of cultural pluralism as it impacts technological considerations and legal and ethical issues surrounding educational technology.

ED 690 Guided Study
(1.5-9 quarter units) Individual study under direction of instructor. Requires prior approval of appropriate academic department.

ED 694 Thesis
This course is a supervised experience culminating in the completion of a thesis that was designed in IL 680. Maximum length of time is 12 months. Note: Grading is by H (for honors), S (for satisfactory work), or U (unsatisfactory work). Class size 5.

ED 695 Educational Project
(1.5-9 quarter units) An opportunity for students to gain practical experience in designing, implementing and evaluating programs in an area of interest pertinent to their professional development.

ED 696 Internships
Opportunities to work in disciplines related to students' interests and needs under the supervision of professionals in the field. Students must present internship plans and schedules in written form, specifying objectives and work schedule. Internship programs and supervising professionals must be approved by sponsoring faculty member. Internships are subject to review by the dean of the School of Education and Human Services.

EDA - Educational Administration

EDA 607 Induction Seminar
This is the initial course in the professional administrative services credential program. Students meet in a group setting and individually with the instructor. The group setting consists of four seminars of 4.5 hours per seminar. Individualized meetings will be with the candidate’s mentor at the candidate’s site. The major focus of the course is the development of the candidate’s individualized professional development plan which will guide the choice of activities and content for the remainder of the program. Candidates design and begin a field based project which is to be based on the total curriculum of the program. Candidates are also introduced to the mentoring process and those mentors for the program. In addition, the course reviews the key competencies of the preliminary administrative services credential; provides an overview of the issues facing administrators in today’s schools; and integrates advanced knowledge of business, the superintendent, facilities, and technology into contemporary school administration.

EDA 608 Professional Development Seminar
This is the professional development course in the professional administrative services credential program. Students meet in a group setting once a month for 4.5 hours per seminar over a four month period and individually with the instructor. Students report on their progress in implementing the professional development of public policy; organizational and cultural environment; and management of information, human and fiscal resources. A discussion of related ethical issues is included in each seminar.

EDA 609 Assessment Seminar
This is the capstone course for the professional administrative services credential program. It is a summative experience which will be conducted in group and individualized settings. The project designed in the induction seminar will be reviewed. Activities developed during the Professional Development Seminar will be summarized and presented. Projects developed throughout the program will be presented and the course work will be integrated into the context of contemporary problem solving administrative work. There will be an emphasis on applying the knowledge and experience gained in the program to the future challenges facing education.

EDT - Educational Technology

EDT 600 Evaluating and Researching Information on the Internet
A comprehensive overview of the research potential of the Internet for teachers in the K-12 classroom environment. Fundamental concepts relating to using the Internet and the World Wide Web for research will include browsers and bookmarks; search engines and Boolean operators; search strategies and electronic research tools; directories and virtual libraries; file transfer protocol (FTP) and software archives; e-mail discussion groups, newsgroups and specialized databases. A special emphasis is placed on designing an interactive classroom project using Web sites and search engines as appropriate learning resources.

EDT 602 Human Learning and Individual Differences
Focuses on the domains of learning and individual differences. Designed as a graduate course, involves extended discussion of the textbook and additional materials. Emphasizes critical reading, analysis and synthesis of the reading material as a means of understanding the interrelationship as well as the impact of individual differences on thinking and learning.
Course Descriptions

EDT 604  The Effect of Technology on Teaching Methodology
A comprehensive view covering issues facing the K-12 teacher as the role of technology stimulates change in teaching methodology within the classroom. Topics focus on the effect technology has on learning theories; diversity in the classroom, global and interdisciplinary education, learning with hypermedia tools and structures; motivational factors; virtual reality environments; learner-centered environments; planning for instruction; and distance education.

EDT 606  Instructional Systems Design
Explores in depth the components of the instructional development process, focusing on design issues: needs analysis, classification of learning tasks, selection of instructional strategies and tactics and construction of prototypes. Students practice the design of effective and appealing instructional based on principles from instructional theory.

EDT 608  Computer-Based Technology in the Classroom
A comprehensive overview of the use of computer-based technology in the educational environment and integration of computer-based applications into instruction in the classroom. Includes study and hands-on experience of such topics as the computer as a tool, tutor and tutte. Addresses the impact of the different computer modalities used in education, terminology, classroom technology management, introduction to the Internet and integration issues of educational technology. Also includes hands-on practice of productivity tools for word processing, spreadsheet and database management.

EDT 610  Technology-Supported Global Learning
(Prerequisite: EDT 608)
A survey of theories and applications of telecommunication methodologies and effective networking schemes for use in the educational environment. Focuses on the design of network-based distance education systems. Covers hands-on experience in Web page design authoring tools and video conferencing technology.

EDT 612  Curriculum Design and Research Using Technology
A comprehensive course providing the student with information about using Internet resources when designing curriculum, productivity software and data collection tools, Internet resource citing, technology trends in learning environments, Internet resources for exceptional children, professional development skills and popular uses for technology in various subject areas.

EDT 620  Instructional Media and Technology in the K-12 Classroom
A comprehensive view of instructional media and technologies for developing learning environments in the K-12 classroom. The course is divided into the following areas: media and instruction, systematic planning for media use, visual principles, projected media, non-projected media, audio, video, computer-based resources and distance education, process technologies and schools of the future.

EDT 630  Using the Internet to Enhance K-12 Learning Environments
A comprehensive view of the multiple facets of the Internet as a tool for communication, inquiry and construction in the K-12 classroom. The topic areas for this course focus on how the Internet relates to authentic activity in the classroom, lesson-based Web projects, copyright laws, chat sessions, school servers, firewalls, virtual learning communities and future uses of the Internet.

EDT 640  Network System Design and Funding Strategies
An examination of the theory and application of effective networking schemes for use in the educational environment. Studies local- (LAN) and wide-area (WAN) networking methodologies, as well as practical methods for designing an effective school computer lab. Additional topics include technology grants and small networking systems.

EDT 650  Presentation Technologies
An overview of the presentation technologies used in the professional educational or instructional environment. Focuses on increasing the effectiveness of presentation skills with technology. Examines the media production process as well as the theory behind why and how presentation technology improves student learning and outcomes.

EDT 655  Issues and Trends in Educational Technology
(Prerequisite: EDT 608 and students must have access to Internet e-mail either through National University or another server.)
A survey of a wide range of state-of-the-art issues and trends that have an impact on the field of educational technology at local, state, national and international levels. Also addresses the basic principles of professional behavior and ethics with respect to students, peers, administrators and teachers from other disciplines, as well as parents and families.

EDT 660  Multimedia and Interactive Technologies
(Prerequisite: EDT 608)
An overview of the use of multimedia and interactive technologies in educational and/or training environments. Focuses on the design and production of multimedia products and emphasizes the appropriate application of learning theories to the designing process. Also addresses the criteria for good design principles, utilization of authoring systems, image scanning and editing, video and sound digitization.

EDT 661  Desktop Publishing in the Educational Environment
An analysis of desktop publishing design and theory for educators and instructional designers. Students study the theory and practice of well-designed pieces that can be used effectively in the educational environment. Focuses on ways to design materials that can effectively enhance public relations and the “image” of the school or institution, as well as that of the classroom teacher.

EDT 662  Enhancing Human Performance Through Technology
A comprehensive survey of electronic communication and distance learning technology applications specifically designed for professionals involved in the development, delivery, management and evaluation of adult education-related programs and services. Includes skill-building activities in the use of technology to create participant databases, maintain program records, monitor program budgets, improve the quality of instruction, enhance student learning, maintain access to relevant information and increase the participation of adult learners.

EDT 694  Thesis
This course is a supervised experience culminating in the completion of a thesis that was designed in IL 680. Maximum length of time is 12 months. Note: Grading is by H (for honors), S (for satisfactory work), or U (unsatisfactory work). Class size 5.

EMB - Executive Master in Business

EMB 682  Financial Accounting
This course focuses on the content, analysis, and interpretation of the financial and managerial accounting information used by managers in making the strategic decisions necessary to achieve organizational goals. The course also includes international accounting issues and the ethical impacts of such issues.

EMB 683  International Economic Strategies
This course introduces students to the conceptual framework within which decisions of multinational corporations can be analyzed. It covers the international balance of payments, foreign exchange rate determination, exchange risk, hedging, and interest arbitrage, international money and capital markets, international financing, and international portfolio management.

EMB 684  Executive Issues in Marketing and Ethics
Executive Issues in Marketing and Ethics uses a mixture of cases, textbook assignments, and Internet research to highlight the multidisciplinary impacts of issues faced by executives in developing international marketing strategies within the context of an ethical business model. The material will develop an understanding of market assessment and market entry issues. The course addresses the constructs and theories of business ethics and marketing to provide students with the ability to make ethical business decisions.

EMB 671  Global Business Simulation
This course provides the student with the opportunity to apply concepts and theories learned in their life experiences and academic program to virtual organizations and competitive environments. Students make strategic and functional decisions for virtual organizations that change the internal and external business environments and performance results of the companies. Students are able to “see” the effects of alternative selections in executive decision making.

EMB 672  International Risk Management
This course presents theories of risk management in international business and situations that will allow students to apply these concepts and integrate them with their own experiences and those of classmates. In developing alternative potential action plans, the student is encouraged to analyze a wide range of risk related situations and to evaluate short-term and long-term ramifications of decisions in risk management.

EMB 673  International Strategic Alliances
This course examines new market opportunities, competitive threats and diffusion of business models associated with international business. Students develop the ability to evaluate the strategic use of alliances within broad competitive strategies. The formation of strategic alliances as a tool among multinational and international organizations are discussed in order to maximize the efficient and effective allocation of resources in pursuit of competitive advantage.

EMB 674  Global Competitive Strategies
This course uses economic and strategy theories to analyze the competitive behavior of organizations. It is intended to enable the student to assess the strategic choices made by organizations in the dynamic competitive environment of international business. The course examines the impacts that business choices have on the survival and prof-
itatibility of an organization. The competitive envi-
ronment is analyzed in terms of cultural, economic,
societal, political-legal, and technological factors.

EMB 686 Data and Research Analysis for Decision-Making
This course focuses on applied statistics, research
methodology, and problem-solving through the inte-
gration of computer technology and quantitative
techniques. The course is taught using lec-
tures, case studies, and statistical computer pack-
ages.

EMB 689 Leadership and Negotiation
This course examines the nature and process of
leadership and developing negotiation strategies in
executive environments. It surveys theories of
leadership, negotiations, bargaining and conflict
resolution. The course emphasizes case studies and
problem solving employing ethical business mod-
els.

EMB 696 EMB A Project
Working in teams or as individuals under the
guidance of their assigned faculty advisor, students
clarify research topics and identify sources from
which data is gathered in preparation for the pro-
ject. Students then gather data and present their
research in written form to the client organization,
if applicable, and to the instructor.

ENGINEERING QUALITY CONTROL

Course Descriptions

ENE 601 Environmental Engineering Laboratory
(Prerequisites SCI 101 or SCI 101A)
This course is dedicated to exploring the contem-
porary Environmental Engineering experience. An
in-depth study of standard methods for analysis of
water and wastewater, sampling techniques and
preservation of samples, and interpretation of ana-
lytical data related to biocides, nitrogen and phos-
phorous treatments. Through lectures, demonstra-
tions, readings, student will also learn the strategic
role of the environmental lab in the modern work-
place.

ENE 602 Environmental Microbiology and Biological
Treatment
(Prerequisites SCI 330 or SCI 335)
This course provides a comprehensive intro-
duction to the design, analysis and implementation
of microbiological and biological treatment. There
is strong emphasis on biology of microorganisms
and general bacteriology, microbiology of aerobic
and anaerobic bacteria as well as physical and chemical
properties of water.

ENE 603 Unit Processes of Environmental Engineering
(Prerequisites MS 205 or CST 208A)
This course emphasizes the application of physical
and chemical methods applied for water and
wastewater treatment, filtration and sedimentation,
options, absorption, ion exchange, aeration, soften-
ing and disinfecting as combined with review of
atmospheric science aspects such as water, air and
soil.

ENE 604 Engineering Aspects of Environmental
Engineering Quality Control
This course introduces application of environmen-
tal science and engineering toward remediation
of environmental pollution, analysis of water, air
and land pollution, including hazardous waste and
engineering of mitigation measures as well as
water and wastewater pollution prevention. It
addresses the current pollution prevention proce-
dures outlined by the EPA for industry that include
source reduction, recycling/reuse treatment, ulti-
mate disposal and combinations of these prevent-
ive measures.

ENE 605 Foundation of Air Pollution Engineering and
Equipment Design
This course provides an overview of the field of air
pollution management with an emphasis on the
sources of air pollution and how they affect the
environment, including the effects on humankind,
plants and animals. Students will study federal,
state and local regulatory requirements and air pol-
lution law, including the California and federal
clear air acts, ambient air quality standards and
government policies on pollution prevention. This
course includes an introduction to air pollution
meteorology, climatology, chemistry, atmospheric
pollutants, air quality and emissions assessment,
control of emissions from stationary sources, pre-
vention and control measures and design.

ENE 606 Principles of Water and Wastewater
Engineering and Treatment
(Prerequisites MS 205 or CST 208A)
This course focuses on the concept of water quality
standards, physical, chemical and biological treat-
ment processes of water and wastewater; trans-
portation, storage and distribution of water sys-
tems; wastewater collection; sanitary sewers and
Governmental Regulatory Water Act; storm drain
and advanced water and wastewater treatment.
Effect of Federal Regulation on water treatment
plant design, design and application of potable
water and wastewater systems, chemical condi-
tioning for water softening and corrosion control.

ENE 607 Toxic and Hazardous Waste Remediation
Analysis and Solid Waste Recovery
(Prerequisites SCI 101 or SCI 101A)
The intent of this course is to give students an
understanding of solid waste; its characterization,
prevention, storage, collection and transportation.
The student will also review statutes and regula-
tions for the management of hazardous material/waste; its identification, transportation,
monitoring, storage, minimization, treatment and
disposal. This course introduces and explores
Toxicology from multiple functional levels, mea-
suring toxicity and assessing risk, respiratory toxi-
cology, ecological toxicology and toxic wastes and
remediation technologies. Statuary and regulatory
basis for toxic and hazardous waste remediation,
identification, transportation, monitoring, storage,
treatment and disposal.

ENE 608 Site Assessment and Environmental
Remediation Management
(Prerequisites SCI 330 or SCI 335)
This course introduces the issues relevant to the
investigation and management of contaminated
sites, emphasizing problem diagnosis/characteri-
zation and the development of site restoration/cor-
rective action clean up programs. This includes
methods for the development site restoration tasks,
methods for evaluating the progress of corrective
action programs and application of risk assessment
methods as a decision-making tool. The focus of
this course is to synthesize technically sound prin-
ciples and techniques that can be applied globally
to contaminated sites in different regions of the
world.

ENE 609A Applied Research Project #1
(Prerequisites: Completion of all program core course
requirements with a GPA of 3.0 or better.)
This course is the first part of the master's research
project. It focuses on the research and selection of
an appropriate topic on one of the research or
applications of environmental engineering. Students
develop the project and utilize skills pre-
viously acquired in their respective core curricu-
lum. This is a regular one-month course. Grading
is by “H” (for Honors, “B” or better work), “S” (for
Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

ENE 609B Applied Research Project #2
(Prerequisites: ENE 609A)
This is a continuation of ENE 609A. Students com-
plete a detailed analysis and design of the project.
This course is a two-month, one session per week
course. After completing the project, students for-
mally present their final product to a review panel
for evaluation and grading. Grading is by “H” (for
Honors, “B” or better work), “S” (for Marginal,
“C” level work) or “U” (Unsatisfactory, “D” or below).

ENG 100 Effective College English I
(3 quarter units) (45 class hours of instruction)
(Prerequisite: Satisfactory performance on Accuplacer)
The first of a two-course sequence designed to provide
incoming students with the expository and
argumentative writing and critical thinking skills
required for college course work. Emphasizing
essay-length compositions, the course covers criti-
cal reading and analysis, thesis formation and
essay organization and basic research and revision
techniques.

ENG 101 Effective College English II
(3 quarter units) (45 class hours of instruction)
(Prerequisite: ENG 100)
The second of a two-course sequence designed to provide
incoming students with expository and
argumentative writing skills.

ENG 240 Advanced Composition
(Prerequisites: ENG 100/101)
An advanced course in expository and argumenta-
tive writing that continues the work of Effective
College English. While Effective College English I
and II focus on essay formulation and research,
Advanced Composition emphasizes textual analy-
sis. Students continue to practice the construction
of arguments based on analytical reasoning, critical
thinking and research skills.

ENG 300 English Practicum and Portfolio
A practicum that exposes students to a variety of
experiences in English and language classrooms.
Through such experience, students are able to ana-
lize the importance of their academic studies in lit-
erature, composition, language and linguistics.
Students observe a full range of activities common
to English classrooms in public middle schools or
high schools. In addition, the course gives instruc-
tion in the requirements of the English portfolio.
Grading is on a Satisfactory/Unsatisfactory basis.

ENG 333 Written Business Communication
(Prerequisites: ENG 100/101)
A continuation of the kinds of expository writing
that began in ENG 100/101. This more advanced
course stresses applications and models in business
communications; letters, memos, sales, research
and marketing reports. (Note: This course is NOT
prerequisite to the business communication
emphasized within the Communications major. All
Communications students must complete COM
320.)

ENG 334A Technical Writing
(Prerequisites: ENG 100/101)
A workshop to help students whose careers will
involve communicating technical information
clearly. Students are encouraged to practice on pro-
fessional models in their own disciplines while
learning those attributes common to all effective
technical writing.
Course Descriptions

ENG 350  
**Fundamentals of Linguistics**  
(Prerequisites: ENG 100/101)  
An introduction to contemporary linguistics. Covers the phonology, morphology and syntax of the English language, with an emphasis on language acquisition as related to the developmental stages of childhood. The course is especially designed for students intending to teach elementary school students.

ENG 352  
**Origins of English**  
Examines the origins of language both within a person and within culture. Covers language acquisition and the history of the English language through its own developmental stages, including the evolution of standard American English and its major dialect communities.

ENG 365  
**Creative Writing**  
(Prerequisites: ENG 100/101)  
An advanced course for students who want to explore more sophisticated writing genres. The course surveys techniques in writing one or more genres, at the discretion of the instructor: short fiction, drama, poetry and screen writing.

ENG 375  
**Nature Writing**  
(Prerequisites: ENG 100/101)  
An advanced course for students interested in using writing as a means of exploring the natural world. This course surveys nature writing in its various forms (essays, articles, poetry, journals, etc.) as well as effective nature writing strategies. Examines the ways that individuals, as thinkers and writers, interact with their local and global environments.

ENG 432  
**Report and Research Paper Writing**  
(Prerequisites: ENG 100/101)  
An advanced, cross-discipline workshop that focuses on the requirements of effective report and research paper writing. Emphasizes effective organization, clear writing, critical thinking, appropriate source citation and both library and Internet research. Introduces students to all of the major citation formats, including MLA, APA, CBE and Chicago Manual. Techniques learned are appropriate to any academic discipline or vocation that requires reports or research papers.

ENG 490  
**Guided Study**  
(1.5-4.5 quarter units)  
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

ENG 600  
**Seminar in Literary Theory**  
This graduate level course examines historical and current issues in literary criticism and theory with particular attention to the developments of the last fifty years. Through an examination of the historical and theoretical background of contemporary literary criticism, students learn to identify and evaluate assumptions about how we read and understand literature. The course emphasizes both reading and writing literary criticism in order to develop the vocabulary and skills necessary to participate in scholarly literary debate.

ENG 610  
**Seminar in Multicultural Literature of North America**  
This graduate level course examines the core concepts of race, ethnicity, culture, and multiculturalism from the standpoint of recent developments in American literary canon formation. Students will analyze these concepts and trace their application in a variety of American literatures such as Asian American, African American, Latino American, and Native American. Students will synthesize current multicultural literary theories with a corpus of significant literary texts.

ENG 620A  
**Seminar in a Literary Period or Movement I**  
An advanced, historically oriented study of a literary period, such as the English Renaissance, or of a movement such as Romanticism or Postmodernism. Variable topic selected by the instructor. (May not duplicate content of ENG 620B.)

ENG 620B  
**Seminar in a Literary Period or Movement II**  
An advanced, historically oriented study of a literary period, such as the English Renaissance, or of a movement such as Romanticism or Postmodernism. Variable topic selected by the instructor. (May not duplicate content of ENG 620A.)

ENG 630  
**Seminar in Fiction**  
Students will write and critique each other's original work in this advanced fiction workshop. In a workshop-style format, students will analyze and critique how the elements of fiction - details, action, structure, theme, language, setting, rhythm, narration and style - are utilized in published and student-generated works. Through reading and critical analysis, students will further define the genre, examine its many forms, and analyze the trends and patterns in literary fiction.

ENG 640  
**Seminar in Poetry**  
An advanced study of the history and practice of poetry through an understanding of poetic forms such as the sonnet, villanelle, haiku, ballad, etc. The focus is on defining the genre through close reading of a rich selection of both traditional and contemporary exemplars of the various forms, including free verse.

ENG 650  
**Seminar in Literary Nonfiction**  
An advanced study of the forms of creative nonfiction, such as memoir, autobiography, nature writing, literary journalism, and the personal essay. Through close reading and critical analysis and writing in a workshop-style format, students will further understand the features of the creative nonfiction, will strengthen their own writing in all genres, and will broaden their understanding of literature and various modes of literary writing.

ENG 660  
**Seminar in Literary Hypermedia**  
This graduate level course examines the history and current practice of literary hypermedia. Through the close reading of primary stand-alone and Web-based hypermedia installations, the course examines hypermedia as a specific literary genre but also contextualizes the practice of hypermedia in relation to work in related fields, such as postmodern, graphic design, film, and performance art. The course also examines the historical antecedents to computer-based literary forms, surveying pre-digital experiments in visual-textual hybrids from the Middle Ages to Modernity.

ENG 670  
**Seminar in Comparative Literary Studies**  
This graduate level course examines the history and practice of comparative literary studies. Students analyze literary texts across national and linguistic as well as temporal, cultural, and disciplinary lines. The course juxtaposes texts and cultural artifacts, both literary and non-literary, of different cultures, disciplines, and genres in a variety of ways in order to develop new perspectives on themes, forms, and contexts. The first part of the course focuses on comparisons across languages and cultures; the second part focuses on comparisons across genres and disciplines.

ENG 680A  
**Seminar in a Theme I**  
Study of a literary motif or theme over time and/or across cultures. Variable topic chosen by the instructor. Examples of themes might be: exile and return, human maturation and aging, utopia/distopia, or self-reflexivity in literature. (May not duplicate content of ENG 680B.)

ENG 680B  
**Seminar in a Theme II**  
Study of a literary motif or theme over time and/or across cultures. Variable topic chosen by the instructor. Examples of themes might be: exile and return, human maturation and aging, utopia/distopia, or self-reflexivity in literature. (May not duplicate content of ENG 680A.)

ENG 690A  
**Seminar in a Major Author I**  
A critical study of the work of a single author, such as Shakespeare, Cervantes, Whitman, Dostoevsky, Neruda, Morrison. Variable topic selected by the instructor. Special attention will be given to biography, culture, and literary context. (May not duplicate content of ENG 690B.)

ENG 690B  
**Seminar in a Major Author II**  
A critical study of the work of a single author, such as Shakespeare, Cervantes, Whitman, Dostoevsky, Neruda, Morrison. Variable topic selected by the instructor. Special attention will be given to biography, culture, and literary context. (May not duplicate content of ENG 690A.)

ENG 699  
**English Capstone Course:**  
The capstone project consists of a critical essay publishable quality that will serve as the Master's thesis. Proposals must be approved by the capstone advisor with whom the degree candidate will be working as well as by the program director. Program assessment also takes place during this course. Assessment consists of an exit exam and submission of a portfolio of student essays, to include projects from the modular courses (ENG 620A or 620B; ENG 680A or 680B; ENG 690A or ENG 690B). Students will take ENG 699 as the last course in the M.A. in English program. Exceptions may be made if the student is within two courses of program completion, with the approval of the program director. (S/U grading)

ESM - Elementary Subject Matter

ESM 302  
**Pre-professional Practicum and Liberal Studies Portfolio Project**  
A pre-professional practicum that acquaints candidates with the activities of the public elementary school teacher and familiarizes candidates with the assessment portfolio. To meet the first objective, students volunteer thirty hours in a public elementary school classroom and attend a school meeting. Candidates analyze, evaluate and compare their field experiences with their peers. To meet the second objective, students plan the production of their assessment portfolio and begin to draft a “Well-Educated Teacher” essay, which is required of the portfolio. (Note: The observation may not be waived. It must be started and finished during the period of enrollment in the class and must take place in a school selected or approved by the instructor. Candidates spend 31.5 hours in observation during school hours; night class meets three times; day class meets four times.) Grading is on a satisfactory/unsatisfactory basis.
EXC 602A Field Experience: Special Education (3 quarter units)
A special education field experience that orients students to all types of exceptionalities and service delivery options in the field of special education. Emphasizes the role of the special education teacher and parent involvement. Students must take the field experience concurrently with their first and second classes. Grading is on a satisfactory/unsatisfactory basis.

EXC 602B Field Experience: Inclusive Settings (3 quarter units)
A field experience that orients students to all types of exceptionalities and service delivery options for special needs students served in general education settings. Emphasizes the roles of general education and special education teachers and parent involvement. Students must take the field experience concurrently with their third and fourth classes. Grading is on a satisfactory/unsatisfactory basis.

EXC 602C Field Experience Seminar (1.5 quarter units)
Students integrate information they have learned from EXC 602A, EXC 602B and other previous courses, self-assess, improve knowledge and become familiar with contemporary issues and trends impacting the field. Emphasizes professional growth and development. Initiates a professional portfolio. Students must take the seminar concurrently with their fifth class. Grading is on a satisfactory/unsatisfactory basis.

EXC 604 Exceptionality and Diversity in the Classroom
A survey of the history and definition of special education, theoretical orientations and development-mental characteristics of special needs students who manifest various types of disabilities, including mild/moderate and moderate/severe disabilities. Emphasizes discussion of the role of family involvement as they relate to IEP development and evaluation. Stresses the sharing of knowledge and mutual understanding, policies of inclusion and the effects of culture and culture contact.

EXC 615 Technology for the Disabled (Prerequisite: Completion of Generic Core Requirements)
An investigation of the current technologies that can empower disabled individuals to access their total environment throughout life. Focuses on technology applications in the school, home, community and workplace.

EXC 615A Field Study: Technology for the Disabled (1.5 quarter units)
(Prerequisite: Completion of Generic Core Requirements)
Practical field activities designed to promote and supplement the course goals and outcomes of EXC 615. Students are encouraged to take the field study concurrently with EXC 615. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 620 Supporting Positive Behavior
An examination of behavioral, psychodynamic, biophysical and developmental theories of behavior management. Emphasizes practical approaches and strategies useful for managing student behavior in educational settings.

EXC 625 Exceptional Children in the Classroom
An examination of four major types of learners: special education, multicultural, gifted/talented and students at risk. Explores how these groups of learners can be taught in general education settings using effective instructional and behavior management strategies.

EXC 630 Assessment and Instructional Planning for Special Needs Students
An overview of informal assessment, curriculum-based assessment and a variety of diagnostic tests related to academic performance. Provides procedures for developing the IEP and methods for implementing programs to meet the objectives specified in the IEP case study. Note: This course meets one night per week during a two-month period.

EXC 644 Reading Methods for Special Education (Prerequisite: Completion of Generic Core Requirements)
A survey of theories about teaching reading and the language arts to the disabled student. Discusses various assessment instruments relevant to the language arts, selection and administration of instruments and the interpretation and communication of results. Through the use of case studies, students learn how to develop, implement and evaluate prescriptive plans based on diagnostic procedures. Class will meet once per week for two months.

EXC 644A Field Study: Reading and Language Arts Methods for Special Education (1.5 quarter units)
(Prerequisite: Completion of Generic Core Requirements)
Practical field activities designed to promote and supplement the course goals and outcomes of EXC 644. Students are encouraged to take this field study concurrently with EXC 644. Note: Grading is on a satisfactory/unsatisfactory basis. Class will meet the first and last class session of a two-month format.

EXC 650 Consultation and Collaboration for Special Education
A discussion of the spectrum of interpersonal and interactive learning skills required of the special education teacher. Emphasizes counseling with parents to enhance the parent-professional partnership. Stresses the sharing of knowledge and mutual efforts between professionals and parents to meet the special needs of exceptional students.

EXC 655A Professional Induction Seminar (3 quarter units)
The first course in the Level II program. An Individual Induction Plan, an action research project, an electronic portfolio and approved non-university professional development activities initiated.

EXC 655B Exit Seminar (1.5 quarter units)
The last course in the Level II program. Student presentation of electronic portfolio to University Supervisor and District Support Provider.

EXC 656 Best Practices for Special Needs Students
Development of an understanding of the philosophical, political, legal and fiscal variables that impact contemporary issues, trends and practices in the field of special education. Basic principles of professional behavior with respect to pupils, peers, administrators, teachers, parents, families and community agencies.

EXC 657 Community Resources and Transition
A comprehensive course designed to equip educators with the ability to plan and implement successful transitional life experiences for students with disabilities. Emphasis on collaboration with other educational and community agencies involved in the transition process.

EXC 658 Advanced Specialization in Mild/Moderate Disabilities
An advanced course in skills needed for effective collaboration, curriculum design and modification and assessment processes for students with mild/moderate disabilities.

EXC 659 Advanced Specialization in Moderate/Severe Disabilities
An advanced methodology designed to ensure that candidates are instructional leaders. Effective communication skills and transdisciplinary relationships with families, caregivers and paraprofessionals are stressed.

EXC 660A Field Study: Instruction of Learners with Mild/Moderate Disabilities (1.5 quarter units)
(Prerequisite: Generic Core Requirements)
Practical field activities designed to promote and supplement the course goals and outcomes of EXC 660. Students are encouraged to take this field study concurrently with EXC 660. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 665 Instruction of Learners with Moderate/Severe Disabilities (Prerequisite: Completion of Generic Core Requirements)
An overview of the characteristics of mild/moderate disabilities. Discusses the planning and evaluation of curriculum, methods, techniques, basic strategies, materials and media used for teaching students who manifest mild/moderate disabilities across the content areas. Addresses positive behavior support. Emphasizes learning strategies, study skills, critical-thinking skills, educational assessment, interactive teaming and parent involvement as they relate to IEP development and evaluation of instruction.

EXC 660A Field Study: Instruction of Learners with Mild/Moderate Disabilities (1.5 quarter units)
(Prerequisite: Generic Core Requirements)
Practical field activities designed to promote and supplement the course goals and outcomes of EXC 660. Students are encouraged to take this field study concurrently with EXC 660. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 665 Instruction of Learners with Moderate/Severe Disabilities (Prerequisite: Completion of Generic Core Requirements)
An overview of the characteristics of moderate/severe disabilities. Discusses the planning and evaluation of curriculum, methods, techniques, basic strategies, materials and media used for teaching students who manifest moderate/severe disabilities. Addresses positive behavior support, communication and social networks, as well as movement, mobility, sensory and specialized health care. Stresses linkages to educational assessment as well as interactive teaming and parent involvement as they relate to IEP development and evaluation of instruction.

EXC 665A Field Study: Instruction of Learners with Moderate/Severe Disabilities (1.5 quarter units)
(Prerequisite: Generic Core Requirements)
Practical field activities designed to promote and supplement the course goals and outcomes of EXC 665. Students are encouraged to take this field study concurrently with EXC 665. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 685A Student Teaching - Mild/Moderate Disabilities
(Prerequisite: All other course work in the Level I Mild/Moderate credential program)
The first month of the full day, full-time supervised student teaching experience with mildly and moderately disabled students. Candidates work with certified master teachers providing special education services to students with mild/moderate disabilities. Consists of 100 hours. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 685B
Student Teaching - Mild/Moderate Disabilities
(Prerequisite: All other course work in the Level I Mild/Moderate credential program)
The second month of a full-day, full-time supervised student teaching experience with mildly and moderately disabled students. Candidates work with certified master teachers providing special education services to students with mild/moderate disabilities. Consists of 100 hours. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 690A
Student Teaching - Moderate/Severe Disabilities
(Prerequisite: All other course work in the Level I Moderate/Severe credential program)
The first month of the full-day, full-time supervised student teaching experience with moderately/severely disabled students. Candidates work with certified master teachers providing special education services to students with moderate/severe disabilities. Consists of a minimum of 100 hours. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 690B
Student Teaching - Moderate/Severe Disabilities
(Prerequisite: All other course work in the Level I Moderate/Severe credential program)
The second month of the full-day, full-time student teaching experience with moderately/severely disabled students. Candidates work with certified master teachers providing special education services to students with moderate/severe disabilities. Consists of a minimum of 100 hours. Note: Grading is on a satisfactory/unsatisfactory basis.

EXC 694
Thesis
This course is a supervised experience culminating in the completion of a thesis that was designed in IL 680. Maximum length of time is 12 months. Note: Grading is by H (for honors), S (for satisfactory work), or U (unsatisfactory work). Class size 5.

FIN – Finance

FIN 310
Business Finance
(Prerequisites: ACC 201 and ACC 202)
This course is a survey of the basic principles and concepts used in the financial management of a business enterprise addressed from both theoretical and practical standpoints. Topics include money and capital markets, financial management of working capital, capital budgeting and fixed asset management, cost of capital, and short-term and long-term financing by means of debt and equity capital.

FIN 440
Financial Institutions
(Prerequisite: FIN 310)
An examination of the nature and role of financial institutions in the economy, topics include money markets and capital markets, the Federal Reserve System and monetary policy, the commercial banking system, thrift institutions, insurance companies, pension funds, investment companies, and other major financial institutions.

FIN 442
Investments
(Prerequisites: FIN 310 and FIN 440)
A survey of principles and practices in the field of investments, the course covers the valuation of corporate securities of multinational and domestic corporations, portfolio theory, and the measurement of portfolio performance. Emphasizes the role of return and risk in valuing stocks, bonds, options, and in constructing portfolios.

FIN 443
Working Capital Management
(Prerequisites: FIN 310 and FIN 440)
A course emphasizing the management of current assets and current liabilities, it covers planning a firm’s overall level of liquidity, stressing cash management and credit policies. Also discussed are selected topics such as bank relations, factoring, and secured inventory financing.

FIN 444
Risk Management and Insurance
(Prerequisites: FIN 310 and FIN 440)
An analysis of the risk management problems in the business enterprise, the course emphasizes methodology for risk analysis, insurance principles and practices, techniques for risk and loss control, insurance underwriting, and rating. It also includes product liability, property damage, and bodily injury in business situations.

FIN 446
International Financial Management
(Prerequisites: FIN 310 and FIN 440)
An examination of the international aspects of corporate finance and investing, the course considers the balance of payments, foreign exchange with emphasis on exchange rate determination, exchange risk, hedging, and interest arbitrage, international money and capital markets, international financing, and international banking.

FIN 447
Financial Planning
(Prerequisites: FIN 319, FIN 440 and FIN 442)
The course is an overview of the broad spectrum of financial planning, including activities such as producing a comprehensive plan to meet the client’s needs and goals for sound financial management, gathering of client information, analyzing client objectives, and using communication skills essential to obtaining quantitative and qualitative client data. It also acquaints students with the importance of retirement and estate planning and tax management.

FIN 448
Seminar in Finance
(Prerequisites: FIN 310, FIN 440, FIN 442, FIN 443 and FIN 446)
This is a capstone course for students specializing in the area of finance. It exposes students to a wide range of finance related topics, including issues affecting the current financial environment of business firms. The course integrates material from previous courses taken in the finance concentration and introduces the topics of capital budgeting and the process of obtaining long-term funds.

FIN 449
Analysis of Financial Statements
(Prerequisite: FIN 310)
An examination of U.S. accounting principles, the course emphasizes the analysis and interpretation of financial statements for management and investment purposes. Students evaluate financial statements of actual publicly traded firms. Course material is applicable to credit policy, investment analysis, and other operating and financial policy decisions.

FIN 600
Managerial Finance
This course examines the financial reports that aid managers in making business decisions. In doing so, this course covers issues such as long- and short-term budgeting, key financial statements, the role of the outside auditor, reporting financial information, and valuation of assets and equities.

FIN 609A
Seminar in Financial Management
A study of corporate financial management, through case studies and/or term projects, this course covers issues such as sources of long-term financing, cost of capital and capital budgeting, dividend policy, mergers and acquisitions, bankruptcy and reorganization, the globalization of finance, ethical standards, information technology, and financial strategy.

FIN 630
Financial Institutions
(Prerequisite: FIN 609A)
This course is an examination of the financial policies and practices of commercial banks, savings and loan associations, pension funds, insurance companies, and other major financial management institutions. It discusses sources and uses of funds, their cost and return, and government regulation of the financial sector.

FIN 631
Security Analysis and Portfolio Management
(Prerequisite: FIN 609A)
This course is an analysis leading to the appraisal and pricing of securities. It discusses the income generating ability of securities, forecasts of trends in the stock and bond markets, fundamental and technical analysis, application of Modern Portfolio Theory (MPT), analysis of active and passive investment strategies, and measurement of portfolio performance.

FIN 632
Managing Financial Resources
(Prerequisite: FIN 609A)
An instruction on how to deploy available capital resources to gain maximum advantage, students study capital budgeting policies and procedures, formulation of growth and diversification policies, appraisal of income and risk, and establishment of decision-making guidelines.

FIN 633
Financing Capital Requirements
(Prerequisite: FIN 609A)
A discussion of how to establish capital structure policies and determine the best methods for raising required capital, the course covers formulation of debt, dividend and equity policies, selection of appropriate financing vehicle, and selection of capital market.

FIN 635
International Finance
(Prerequisite: FIN 609A)
An examination of the international aspects of corporate finance and investing, this course covers the international balance of payments and foreign exchange. It emphasizes exchange rate determination, exchange risk, hedging, and interest arbitrage, international money and capital markets, international financing, and international portfolio management.

FIN 641
Advanced Security Analysis and Portfolio Management
(Prerequisites: FIN 631 and FIN 609A)
An in-depth look at several of the advanced topics surveyed in FIN 631, this course includes bond portfolio management strategies, bond betas and their portfolio impact, option valuation models and hedging, practical use of portfolio insurance and hedging, problems with model-dependent hedging, and the use of futures contracts and their objectives. It covers problems faced by corporate and professional investment managers in their effort to hedge portfolio risks and improve portfolio returns.

FIN 650
Global Financing for Trade
An examination of the basic financial problems facing an internationally oriented company, this
course includes the structure and operations of the international financial system, foreign exchange rates, foreign exchange risks and their management, international sources of funds, international cash management, and basic instruments of international financial transactions (e.g., letters of credit, foreign currency contracts, foreign currency accounts, and banking facilities). Note: Students specializing in financial management may not take this course.

FIN 651 Commercial Bank Management
This course is a detailed analysis of the functional areas of banking including the management of deposits, cash, loans, and other asset accounts. Current problem areas in banking such as liquidity, capital adequacy, and problem loans are explored, as well as bank investment accounts and their relationship to profitability and liquidity.

FIN 652 Real Estate Finance
This course presents Real Estate Finance and Investment issues from a portfolio perspective. It provides a complete analysis of real estate partnerships, secondary mortgage markets, adjustable rate mortgages. It also includes the applied topics of corporate real estate, including lease versus own analysis, sale and leaseback decisions, and the role of real estate in corporate restructuring.

FIN 653 Financial Engineering and Derivatives
This course provides an introduction to futures and options markets and outlines the different ways in which they can be used. It covers futures and forward contracts, pricing of forward and futures, hedging techniques, swaps, options markets, trading strategies, option pricing models, volatility smiles, and a detailed treatment of hedge parameters such as delta, gamma, and vega. Also discussed is portfolio insurance, value-at-risk measure, multistep binomial trees to value American options, interest rate options, and other exotic options.

FIN 654 Cases in Financial Studies
Reflecting the fact the Finance has gone through dramatic changes in the last 20 years, this course will study cases related to expert testimony, chain-of-custody issues, and methods for proper procedures of seizing, imaging, and examining digital computer evidence.

FS 621 Electronic Crime Scene Investigation: Computer Forensics
A study of investigative techniques that are utilized in processing digital evidence. Students in the course will study cases related to expert testimony, chain-of-custody issues, and methods for proper procedures of seizing, imaging, and examining digital computer evidence.

FS 622 Constitution and Criminal Procedure
An introduction to the foundation for understanding Constitutional laws, the guarantees of the Constitution to citizens of their civil right and civil liberties, and how the Constitution and its amendments influence the criminal justice system. This course covers the constitutional rules, established by Supreme Court, for collecting evidence at crime scene, questioning witnesses/suspects, arresting suspects, and seizing evidence as well as the constitutional rights of the accused at trial.

FS 623 Advanced Fingerprint Analysis
As introduction to basic principles and techniques of fingerprints as applied to crime scenes, forensic evidence, identification, and court presentation. Emphasis is on the science of fingerprints, history, pattern recognition, and the application of the Henry Classification System. Additional subjects explored include the proper method of collecting both known and latent prints.

FS 630 Principles of Forensic Medicine
A study in forensic terminology, anatomy and physiology of the human body. Emphasizes the underlying pathology of traumatic and sudden unexpected deaths encountered in forensics. Also discusses bone growth and repair as it relates to child abuse, structure and functions of the heart relating to sudden deaths and anatomic areas of the brain prone to hemorrhagic lesions following trauma.

FS 631 Major Case Investigation
A study of investigative techniques that are utilized in felony crimes of violence and crimes against property, including homicide, rape, arson, assault and battery, robbery, burglary and grand theft. Examines the completion of such cases from initial crime scene through investigation and adjudication.

FS 641 Physical Aspects of Forensic Science
Survey of forensic physical sciences, fingerprints and other patterned evidence, such as tire marks and shoe prints, firearms and tool marks. Covers document examination and examinations of trace evidence, such as the following: soil, paint, glass, wood, hairs and fibers, grease, cosmetics, arson and explosive residues, blood-pattern analysis, qualifications and preparation of expert witnesses and operation and functioning of a forensic science laboratory.

FS 642 Forensic Pathology (Medico-legal Investigation of Death)
Survey of the scientific techniques used in medico-legal investigations, time, cause and manner of death (homicide, suicide and accidental deaths), injury and death, firearm injuries, transportation injuries, physical injuries, trauma and disease, battered baby syndrome (child abuse) and shaken baby syndrome, sexual assault, asphyxial deaths, drowning, infanticide, medical malpractice and medical ethical issues of forensic evidence and records for court.

FS 643 Forensic Psychology, Psychiatry and the Law
An examination of the nomenclature of mental disorders, diminished capacity and insanity defenses, involuntary commitment, mental competency to stand trial, mentally disordered sex offenders, psychological and psychiatric testing and assessment of criminal offenders, psychodynamic formulation, organic brain dysfunction and forensic neuropsychology.

FS 644 Forensic Toxicology and Drug Analysis
A comprehensive study of the general principles and fundamentals of forensic toxicology, poisons, action, toxicity, postmortem characteristics, samples required for toxicological analysis and methods of collection, methods of collection, methods of preservation and analysis. Discusses chemical, toxicological and pathological characteristics of commonly abused drugs, including the following: ethanol, barbiturates, narcotics, stimulants and hallucinogens. Details the methods used for analysis, such as color test, micro diffusion, chromatography (GC, TLC, HPLC), mass spectrometry (MS), GC-MS and radioimmunoassay (RIA). Covers the toxicologist as expert witness.

FS 645 Forensic Serology and DNA
A study of the principles of forensic serology, analysis and comparison of biological evidentiary samples such as blood, semen, saliva and all other biological samples and tissues. Examines electrophoresis, isoelectric focusing, DNA extraction procedures, polymerase chain reaction (PCR), DNA typing, sex and race determination and methods of genetics and DNA analysis and detection (i.e., immunofixation and immunoblotting). Covers forensic applications of enzyme-linked immunosorbent assay (ELISA) as well as laboratory safety, quality assurance and quality control. Includes case work training and internship. Students obtain hands-on experience.

FS 647 Crime Scene Investigation
Designed to help students understand techniques and procedures used for approaching and protecting the crime scene. Covers crime scene survey and documentation, collection of fragile and easily destroyed evidence, detailed search of the scene, packaging of initial evidence collected, processing the scene for latent prints, maintenance of the chain of custody and transportation or mail evidence.

FS 648 Forensic and Crime Scene Photography
An examination of the basic principles and fundamentals of using photography, video and other visual procedures in forensics with the legal aspects and photographic presentations in court or trial.

FS 651 Selected Topics in Forensic Sciences
A project-based course where students work under close faculty guidance and supervision on particular topics of interest. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” below).

FS 652 Personal Identification/Forensic Anthropology
A study of the methods of personal identification based on skeletons, tattooing, personal effects, ocularizational marks, birth marks, scars, photo superimposition, finger prints, voice print, odontology, radiographs and facial reconstruction. Also studies skeletal remains (physical and biological anthropo- pology) including species, sex, age, race, stature, congenital abnormality, trauma, cause, manner and time of death.
Course Descriptions

FS 654
Crimal Investigation Analysis: Profiling
Designed to help students acquire skills and knowledge in criminal investigation analysis. Students are introduced to various techniques used by criminalists and behavioral scientists to profile individuals that typically commit violent crimes. Includes study of victimology and crime scene analysis.

FS 661
Internship in Forensic Sciences
(1.5-9 quarter units)
An internship for students looking for field experience in the law enforcement field. Students receive academic guidance from forensic science faculty and supervision at the field placement site. The internship requires students to work a minimum of 300 hours under faculty and field supervision. Students must write an in-depth research paper on their experiences during the placement. This paper is coordinated and supported by the student's faculty advisor and field supervisor. Units are arranged and determined based on assignment and the number of hours at the placement site. Grading is by H (for Honors, B or better work), S (for Marginal, C level work) or U (Unsatisfactory, D or below).

FS 662
Supervised Graduate Research Project
Forensic science students can undertake a research project once they have completed all courses in the program. The project is coordinated by full-time faculty and chaired by a FS faculty member chosen by the student from previous courses taken within the program. Students select a committee and a viable forensic science topic to research. Students meet once a week for two months with a committee member. Upon completion, students present the projects to an open forum that is open to peers. Grading is by "H" (for Honors, "B" or better work), "S" (for Marginal, "C" level work) or "U" (Unsatisfactory, "D" or below).

Students who do not complete the Research Project within the two-month period are eligible, at the discretion of the instructor, to receive a grade of "I" (Incomplete). Grading is by "H" (for Honors, "B" or better work), "S" (for Marginal, "C" level work) or "U" (Unsatisfactory, "D" or below).

FS 690
Guided Study
(1.5-9 quarter units)
Individual study under direction of the instructor. Requires prior approval of appropriate academic department.

GS - Global Studies

GS 310
Global Communications and Information Technology
(Prerequisite: ENG 240)
An analysis of the history, growth, use and future development of global communications and information systems. Examines the technological, social, political and economic forces that impact the evolution of electronic communications and information technology across the world (global) and around the world (regional and local).

GS 320
Technologies of Culture
(Prerequisite: ENG 240)
An examination of the U.S. culture industry—the increasingly prevalent positioning of American culture abroad. This includes Hollywood films and television programs to the stuff of the great American lifestyle (toys, clothes, cars, food, images, attitudes, dreams and desires). The course is organized around several examples of cross-pollination between the U.S. and other cultures in the film industry, the television media, and/or the computer gaming software industry.

GS 330
Film in an International Context
(Prerequisite: ENG 240)
An examination of how the international cinema portrays various aspects of the societies and cultures represented in film. Emphasizes the film industries of a variety of countries outside the U.S. For example, representative films of Asia, Africa, Europe, Latin America, Australia and Oceania and Canada may be studied.

GS 331
American Film in an International Context
(Prerequisite: ENG 240)
Discusses the role of American film within a global perspective. Deals with questions in American society that place it in an international context and with specific American attitudes towards those questions as expressed and reflected in American films: the relationship of the sexes, war, labor, nuclear holocaust and major. Emphasis in this discussion is placed not only on transnational concerns of sex, race, nationality and class, but also on universal human experiences and ideological and ethical values.

GS 410
Gender Studies: Gender Identity in a Global Context
(Prerequisite: ENG 240)
An investigation into how the formation of gender identity is the building block for family life, social roles, political and economic participation and a host of other factors that influence any group's participation in a global community. Topics include the distinction between sex and gender, the ways in which gender shapes education and work, the representation of gender in the media and the arts, struggles for equality between the sexes and the historical transformations of gender related to global political and economic factors.

GS 420
Ecological Revolutions: Economics, Technology and the Global Environment
(Prerequisite: ENG 240)
This course places contemporary ecological concerns in a global and historical context revealing how humans have fundamentally altered their relationship to the natural environment in the last 500 years. Topics include cultural conceptions of nature and non-human species, the value and use of resources in different societies, the consequences of various kinds of economic organization (particularly capitalism) on the environment and the impact of technological revolutions on the world's ecology.

GS 430
The Global Economy
(Prerequisite: ENG 240)
Since World War II, the nature of international economic exchanges has changed significantly. Enormous changes in technology, urbanization, finance, markets, lending, the internationalization of both production and multilateral firms, the organization of work, power relations between nations and world cultures are currently going by the name "globalization." This course examines the nature of those changes and the theories that try to explain them. Also looks at the consequences of and popular responses to, the new global economy.

GS 440
Study Abroad
(Prerequisite: HIS 320)
During this one month elective course, students will travel as a class and spend two weeks studying in a foreign country. While the course topics will vary depending upon the country of destination and the instructor, the course offers focused study so students develop a genuine appreciation of another culture. Through exercises, readings, and field trips, the course invites learners to take an active role not only in their own preparation for the study abroad experience, but for their personal, academic, and professional growth. This course demands from them a critical exploration of their beliefs, goals, and behaviors. The course covers personal development, learning about one's own culture, learning about another culture, professional development, and the rudiments of learning a foreign language. Each strand of development is addressed at the three crucial phases of the experience: before, during and after the sojourn abroad. The course lasts one month. It is the student's responsibility to find out about any additional fees, waivers, passports, immunizations and other requirements that may need to be fulfilled depending on the destination.

GS 450
Global Studies Seminar and Portfolio Project
(Capstone course. To be taken as the final course in the major)
A seminar course that puts students in close contact with key faculty and with each other in forging connections between global culture, business, and technology. Seminar topics vary. The portfolio project is the capstone for the major and should be of such quality that it can be shown to prospective employers or clients. Students can enroll only if they have completed more than half of their degree requirements.

HB - Human Behavior

HB 301
Behavioral Science
(Prerequisite: ENG 100/101 and PSY 100)
A study of the application of human behavior and behavioral science principles to the practice of management.

HB 400
Group Structure and Dynamics
(Prerequisites: ENG 100/101 and PSY 100)
An analysis of behavior, perspectives and practices as applied to group dynamics. Focuses on approach and skills in group dynamics as they relate to performance and enhancement of cooperative/collaborative effectiveness. Uses practice through role-playing of effective techniques in dealing with a variety of cooperative/collaborative situations.

HB 401
Conflict Resolution
(Prerequisites: ENG 100/101 and PSY 100)
A focus on the process of negotiation and conflict resolution. Gives special attention to conflict within and between persons in organizations and industry. Emphasizes application of techniques to conflict resolution situations via role-playing.

HB 420
Human Communication
(Prerequisites: ENG 100/101 and PSY 100)
A study of the theoretical and practical aspects of interpersonal and group communication.

HB 440
Organizational Development
(Prerequisites: ENG 100/101 and PSY 100)
A study of human relations and its relationship to organizational effectiveness through planned change and technological development.

HB 441
Analysis of Research
(Prerequisites: ENG 100/101 and PSY 100)
An evaluation of research in psychology and the behavioral sciences. Includes work on research design, statistical interpretation and research methodology.


HB 480 Senior Project in Organizational Behavior
(Two-month, 4.5 quarter unit course)
(Prerequisite: ENG 100/101, PSY 100, HB 441)
Designed as a capstone, integrative project, in the BSOB program (previously numbered as HB402).
Each student develops a major project (agreed upon by the student and the course instructor) that integrates several areas in organizational behavior. The project may take many forms including, but not limited to, an empirical research study, a comprehensive review of the literature, a program evaluation, or a position/policy paper. Specific course requirements will vary depending upon the instructor, but the student should expect to produce a 20-30 page paper (APA style) that will be evaluated on clarity, thoroughness, style, format, and creativity. An oral presentation of the student’s work is also expected. Students meet in a seminar format to present work in progress. The project is conducted for a two-month period, and the student may take other courses concurrently if approved by the Committee for the Application of Standards (CAS). This course may not be taken as an independent study.

HB 490 Guided Study
(1.5-4.5 quarter units)
Individual study under the direction of an instructor. Requires prior approval of appropriate academic department.

HB 500 Cross-Cultural Dynamics of Human Behavior
(Prerequisites: ENG 100/101 and PSY 100)
A curriculum-wide elective that studies the psycho-socio-cultural aspects of human differences and the enhancement of interpersonal/intercultural communication skills. Increases the knowledge and understanding of differences in people and perspectives, enhances learning and performance in multicultural environments and fosters interactive diversity as a socio-cultural imperative and behavioral norm.

HB 601A Organizational Behavior
An in-depth study of various types of organizational structures, both formal and informal, with special emphasis on behavior of people within those structures.

HB 601B Communication for Managers
An analysis of interpersonal communications as related to organizational effectiveness. Covers the practical application of communication theory to work-related situations.

HB 601D Creative Leadership
A study of the qualities of leadership required today and in the future. Emphasizes historical as well as contemporary leaders.

HB 639 Contemporary Issues in Sexuality
An examination of the personal, interpersonal and social dimensions of human sexuality. Covers topics such as anatomy and physiology of human sexuality, contemporary American sexual behavior, sexual myths, sex-role socialization, sexual dysfunctions and sexual-social issues.

HB 641 Stages of Adult Development
An examination of the adult stages of human biological, psychological and social development. Discusses classical as well as contemporary theories.

HB 642 Theories of Behavior Change
A survey of social psychological theories of behavior change and resistance to change.

HB 646 Personal and Professional Ethics
A study of normative judgments as applied to contemporary human problems such as the uses of power, business practices and the right to live and to die. Examines varied ethical systems using a case study format.

HB 648 Personal Growth and Communication
An examination of the meaning and importance of personal growth and human communication in human life and relationships. Development of critical communication skills, self-awareness and self-understanding to enhance personal and professional relationships. Presents a variety of models and methodologies in the exploration of physical, mental, emotional, social and spiritual growth.

HB 650 Foundations of Behavioral Research
Behavioral research is a way to examine and understand individual and social behavior through measurement and interpretation. This course investigates the theoretical principles that underlie behavioral research and the application of current research techniques. The course forms the foundation for practical application of behavioral science and continued study in the human behavior and is essential to completing the capstone course in the program (Integrative Project in Human Behavior, HB 680).

HB 660 Organizational Assessment
(Prerequisite: HB 650)
As study of the organizational assessments of human attributes (abilities, personality and vocational interests) and their role in behavioral determinants in school, work and interpersonal settings. Methodological issues encountered in the assessment of psychological traits (construct validity) and the developmental etiology will be covered. The course reviews the literature in organizational assessment, career development and personnel psychology applied to work. Topics include job analysis, performance appraisal, testing and assessment, employee selection, equal opportunity guidelines, development and evaluation of training programs.

HB 680 Integrative Project in Human Behavior
(Prerequisite: HB 650)
The course is the capstone project for the MAHB program. Each student conducts a major project that integrates a topic of special interest. The project will analyze and synthesize theoretical and applied concepts from a specialized area selected by the student. Specific course requirements will vary depending upon the instructor, but the students should expect to produce a 20-30 page paper (APA style) that will be evaluated on clarity, thoroughness, style, format and creativity. An oral presentation of the student’s work is also expected. Literature reviews and empirically-based studies are the norm, but other formats are acceptable with the approval of the instructor. The project is conducted for a two-month period and the student may take other courses concurrently if approved by the Committee for the Application of Standards (CAS). The student will normally be required to develop a project proposal during HB 650 (Foundations of Behavioral Research) or HB 660 (Organizational Assessment) that can then be completed during the capstone course. This course may not be taken as an independent study. Students must earn a grade of B or better or must repeat the course.

HB 690 Guided Study
(1.5-4.5 quarter units)
An individual study under direction of the instructor. Requires prior approval of appropriate academic department.

HC - Health Care

HC 509A Health Care Law, Policy, Politics and Ethics
An examination of current health care public policy and politics in the United States. Studies the role of federal, state and county government in the development of health care policy and its impact upon health care facilities. An analysis of current legal issues that affect health care providers, administrators and other health care personnel. Reviews contract law as it relates to health care facilities.

HC 620A Health Care Management
An overview of health care management, including current issues in health care and theoretical basis for these current issues. Discussions of health care administration emphasizing organization, management, planning, communication, directing and controlling the practice of health care management.

HC 629 Health Care Finance, Budget and Managed Care
(Prerequisite: ACC 604)
A study of effective management of the limited financial resources in health care industry. Focuses on the basic concepts and techniques of cost accounting, financial reporting, reimbursement, budgeting and financial controls and strategic financial planning. Also includes an examination of managed care structures including Health Maintenance Organizations (HMOs), Preferred Provider Organizations (PPOs) and Independent Practice Associations (IPAs).

HC 634 Program Planning, Strategic Planning and Evaluation
A survey of basic program planning from the conception of an idea to the implementation of the program. Explores the various program evaluation techniques. Emphasizes the value of teamwork in the learning process, as specific individuals will have responsibility for development of specific aspects of an actual program plan for a health care program in an organization.

HC 635 Ambulatory Care Continuum
A study of various ambulatory care service components. With a shift from inpatient to outpatient services, this is the fastest growing component of the present non-integrated health care systems. Focuses on standards of accreditation and the issues involved in monitoring these proliferating services.

HC 640 Biostatistics and Research
An introduction to the use of statistical analysis in health care management. Provides an understanding of the basic methods and underlying concepts of statistics and research that are used in management decision-making. Among topics explored are descriptive statistics, probability, sampling, hypothesis testing and non-parametric statistics. Applications in health-related management and research are featured.

HC 641 ElderCare - Issues into Practice
The aging of America continues to be an issue in the delivery of health care. This course is designed to explore the issues of eldercare, gerontology, legal implications (including patient’s rights), systems delivery and ambulatory care management. Discusses the role of administration in eldercare. An exploration into the physical, psychological and sociological aspects of caring for the elderly. This course is designed to provide the student with the option to sit for the State of California Licensing Examination for Administrators.
HED 602 Comprehensive School Health Programs

An advanced health education course focusing on coordinated school health, comprehensive school health programs, and how to plan, implement, coordinate, and evaluate a health education curriculum within a comprehensive school health system. A comprehensive school health system includes school health education, health services, nutrition services, psychological and counseling services, a safe and healthy environment, and health promotion for staff, parents, and community. Meets the CTC requirements for advanced health education for the professional clear credential.

HIS 220A History of the United States I

(Prerequisites: ENG 100/101)
A survey of American historical development from pre-colonial times through Reconstruction. Explores the wide variety of economic, political, social and cultural factors that shaped the origins of the nation, including the Revolution, the Constitution and the post-Reconstruction era. Special attention is paid to issues of race, gender and ethnicity. Includes study of the Constitution.

HIS 220B History of the United States II

(Prerequisites: ENG 100/101)
A survey of American historical development from the Reconstruction era to the present. Explores the wide variety of economic, political, social and cultural factors that shaped the development of the nation, including industrialization, America’s emergence as a world power and the challenges of the late 20th century. Focuses special attention to issues of race, gender and ethnicity. May involve work in oral history.

HIS 233 World Civilizations I

(Prerequisites: ENG 100/101)
A discussion of how the distinctive cultures, economies and societies of the world developed from prehistoric times up to the European conquest of the Americas (ca. 1500 C.E.). Explores issues of gender, class, personal identity, love, war, imperialism, sexuality, citizenship, religion, urban life and ecology as they pertain to the ancient civilizations, classic civilizations and post-classical (medieval) civilizations in Asia, Africa, the Americas and Europe.

HIS 234 World Civilizations II

(Prerequisites: ENG 100/101)
An explanation of how the cultures, economies and societies of the world developed in the interaction of diverse peoples and civilizations since 1500 C.E. Examines the era of the European Renaissance and such civilizations as Ming China, Mughal India, Ottoman Turkey and Aztec Mexico. Explores issues of class, personal and cultural identity, race, work, industrial development, colonialism, ecology and political and economic life to explain the development of the modern world.

HIS 300 Foundations of Western Civilization

(Prerequisites: ENG 100/101)
Explores the important social, material, cultural, and intellectual bases of European civilization and situates them in relation to other major Afro-Eurasian civilizations. Examines hunting-gathering and early agricultural societies, Mesopotamian and Egyptian civilizations, the Hebrew, Greek and Roman worlds, the origins and spread of Christianity, the nomadic invasions of Europe, Europe’s Byzantine and Islamic legacies, and the medieval European synthesis of Greco-Roman and Germanic heritages.

HIS 320 Culture, Capitalism and Technology in Modern World History

(Prerequisites: ENG 100/101)
Places contemporary cultural, economic and technological issues in a global and historical perspective. Shows how major issues that concern us today are rooted in the experiences of world civilizations since 1500. These issues include the rise of capitalism, industrialization and commodity production and their diffusion over the world; the pace and nature of technological change; the role of culture in directing economic and technological change; and the impact of capitalism on working life, the natural world, cultural diversity and cultural identity. Examines the ways that capitalism, culture and technology have interacted over the past 500 years to shape the places, peoples and societies that have come to exist in the modern world.

HIS 325 Work and Migration in Modern World History

(Prerequisites: ENG 100/101)
Human migration is the story of individual lives enmeshed in larger historical issues of identity, culture, work, social institutions and various forms of coercion. Explores how work and migration have enmeshed in larger historical issues of identity, culture, work, social institutions and various forms of coercion. Explores how work and migration have

HIS 345 Latin American Studies +

(Prerequisites: ENG 100/101)
An introduction to important issues in Latin American history and culture focusing on the diversity of Latin American societies and their multicultural heritage. Topics may include the impact of colonialism on indigenous societies, the growth of plantation and mining economies, the capture and enslavement of Africans, the struggle for independence, the distribution of political power, the recurrence of popular rebellion and the creativity of artistic and cultural life.

HIS 348 Asian Studies +

(Prerequisites: ENG 100/101)
A critical overview of contemporary Asian history and culture focusing on the formation of modern societies. Emphasis is determined by the instructor and will include an in-depth examination of one of the following countries or areas: China, Japan, India, Korea, Taiwan, Southeast Asia, Thailand, Tibet and the Philippines, among others. Topics may include the distribution of political power throughout the regions, ideological and structural stratification between the east and the west, the impact of “Orientalism” in a global context, the impact of Imperialism on indigenous communities, the effects of sexual and religious stratification, the impact of sex tourism and the repression of ethnic, political and religious differences throughout and within different regions of Asia.

HIS 349 African Studies +

(Prerequisites: ENG 100/101)
A critical introduction to the study of African society, culture and history. Examines the sources of African culture, politics and intellectual development, as well as modernization and social change in contemporary African societies. Examines social, economic and intellectual developments including issues of colonialism, post-colonial independence, underdevelopment, genocide, gender inequality, AIDS and the politics of international relief agencies, as well as new cultural forms of art and literature. Provides an overview of Africa both as a geographic location and as a Western idea, with additional emphasis on regional variations and multicultural differences within the continent.

HIS 350 Cultural Diversity +

(Prerequisites: ENG 100/101)
An examination of race, gender, ethnicity and class in 20th century American society. Introduces students to methods for studying the changing nature of our society and explores ways in which our increasingly urbanized and technological culture affects all aspects of professional and unskilled work. May involve work in oral history.

HIS 370 Cultures and History of the American Southwest

(Prerequisites: ENG 100/101)
An examination of what has attracted people to the Southwestern United States over the last thousand years and how people have changed and enriched the region with their diverse cultural, social and economic contributions. Places race relations, immigration issues and environmental concerns, resource use, cultural beliefs, gender roles, public order and working life in a historical perspective. May involve work in oral history.

HIS 410 The California Experience +

(Prerequisites: ENG 100/101)
Course Descriptions

Through an historical and literary approach, this course examines the interaction of the hopes and dreams of the peoples of California from the arrival of the first peoples to the post-World War II boom. May involve work in oral history.

HM 420 The Civil War
(Prerequisite: ENG 100/101)
An examination of the dynamic convergence of economic, geopolitical and racial factors that contributed to the most explosive conflict in U.S. history. Focuses on the consequences of the war for subsequent American historical development.

HM 431 The Ancient World
(Prerequisite: ENG 100/101 or its equivalent)
An examination of the origins of Western civilization. Analyzes the civilizations of the Ancient Near East, Greece and Rome and their legacy to contemporary culture. Readings include selections from the literatures of Mesopotamia, Egypt, the Bible and Greek and Roman texts.

HM 490 Guided Study
(1.5-4.5 quarter units)
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

HM - Hospitality Management

HM 400 Principles of Hospitality and Casino Accounting
This course encompasses financial reporting systems, internal controls, managerial reporting and federal and state regulations that impact the accounting in a hotel, resort or casino environment. Students will gain hands-on experience in complying with GAAP and legal requirements of financial reporting in the hospitality and casino industries.

HM 410 Hospitality and Gaming Law
This course will examine the role that differing state and federal laws and regulations will play in the operation of hotels, resorts and casinos. The limitations and exceptions to these laws they apply to Tribal Lands will be assessed. It provides the essential information that managers need to comply with the law and to develop preventative tactics to avoid lawsuits.

HM 420 Hospitality and Casino Marketing
(Prerequisite: MKT 402A)
This course will examine the application of the traditional marketing functions to the areas of the hospitality and casino industries. Students will develop plans for the use of convention and promotional events as marketing tools.

HM 430 Principles of Hospitality and Casino Staffing
This course is designed to discuss the importance of cultural awareness and sensitivity in effective human resources management practices in the hospitality industry. The course examines the increasing cultural diversity found in both the consumer and employee populations and how managers can address different cultural needs of the relevant populations.

HM 450 Native American Tribal Community Development
This course is an introduction to the issues and concepts of the Native American community and economic development. Discussion of the positive and negative impacts of casinos on the lives of tribal members, as well as on the community relations with the non-tribal community will be examined.

HRM - Human Resources Management

HRM 409B Survey in Human Resources Management and Organization Development
The course provides an overview of human resources management and organizational development activities including employment, interviewing, career systems, compensation, benefits, training, organizational change, performance evaluation, discipline and employee assistance, labor relations, affirmative action and equal employment opportunity considerations, and health and safety.

HRM 432 Recruiting, Selection, Promotion, and Retention
(Prerequisite: HRM 409B)
This course is designed to explore all aspects of reviewing the strategic direction of an organization and how it relates to assessing and filling jobs, from initial hiring through subsequent placement, promotion, and retention. It will include techniques for determining staffing needs, recruiting, screening, assigning, evaluating, assessing, and promoting. An exploration of options for employee development and retention in changing economy is provided. Also reviewed are special concerns regarding regulations, employee attitudes, and union representation.

HRM 433 Pay and Benefit Administration, and HR Technology
(Prerequisite: HRM 409B)
This course reviews the fundamentals of wage and salary programs, including the development of job descriptions, performing job evaluations, conducting salary surveys, adjusting pay structures, considering differentials, and relating pay to performance. Benefit programs and related employee incentive and service programs are also covered. Ways to link performance to both monetary and non-monetary rewards will be reviewed, including profit sharing, bonus plans, stock options, awards and special rewards for managerial personnel. Legislative restraints and tax treatments are discussed and behavioral theories are highlighted as they apply in this area. The incorporation of technology as it relates to Human Resource Management Systems that increases efficiency in pay, benefits administration, and aligning HR with organizational activities are also covered. The synthesis of pay, benefits administration and HR technology integrates the selection, development and administration of practical programs and systems for attracting, motivating, and retaining human resources.

HRM 439 Legal, Regulatory, and Labor Relation Concerns in HRM
(Prerequisite: HRM 409B)
An introduction to the wide spectrum of legal and regulatory concerns that human resources managers face in the workplace (EEO laws, affirmative action, compliance requirements, prevention of employment-related liability). The course ties in the development, aims, structure and function of labor and employer organizations, examines the relationship of labor management, and bargaining and resolution of employer-employee issues.

HRM 630 Legal Aspects of Human Resources Management
A comprehensive study of the laws and regulations, both federal and state, that impact human resources management. Emphasizes equal employment opportunity, affirmative action, health and safety (OSHA), privacy of information and methods of liability prevention in employment matters.

HRM 632 Compensation, Incentive and Benefit Programs
A survey of the fundamentals of wage, salary and benefit administration and more elaborate forms of group and individual incentive and reward programs. Reviews the tools and techniques of job analysis, job evaluation, wage structuring, salary surveying and pay administration. Also covers profit sharing, bonus plans, stock options and special rewards and perquisites for key professional and managerial personnel. Includes legislative restraints and tax treatments and behavioral theories. Primarily focuses on the development and administration of practical programs for attracting, motivating and retaining human resources

HRM 633A Seminar in Union-Management Relations
An examination of relationships among unions, workers, management and the government. Covers legal restraints with respect to organization drives, negotiation, contract administration and decertification. Gives close examination to preparation for and techniques in, negotiations, strikes and lockouts, as well as grievance handling and arbitration.

HRM 636 Seminar in Training and Development
(Prerequisite: All core requirements)
Employee development is a responsibility of both the line manager and the human resources professional. This course provides essential managerial-level comprehension of training theory and its practical applications in the business and management environment. Students learn the functions and duties of training, including the role of trainer/developer, the identification and assessment of training needs, program design and development to satisfy the needs, selection of delivery methods and means of instruction, the conduct of training and development programs and their evaluation. Secondly, the course covers the relationship of corporate training to individual employee career development and the role and importance of training to the organizational development function. As a final project, students are required to develop an organizational training program.

HRM 637 Procurement and Placement
A study of the planning, organizing, directing and monitoring of human resources planning processes, including recruiting, selecting and placing individuals within organizations, along with orienting them to their jobs and to the organization itself. Focuses on opportunities and effects of a multicultural society as well as the context of procurement in globally oriented organizations.

HRM 638 Leadership and Organization Development
A study of approaches and strategies for leading organizations and managing people in a continuously changing global environment. Focuses on skills for processing group and team interactions as a means of empowering employees for decision making and organizational problem solving. Identifies methods for building trust among employees and managers. Covers leadership expectations and responsibilities of managers in relation to individual and team performance.
HRM 640 Managing Human Resources in Multi-Cultural Environments
A comprehensive review of the fundamentals of human resources management practices from the perspective of the manager. Provides in-depth analysis of current issues such as workforce planning, diversity, training and development and the impact of technology. Through extensive use of case studies, examines HRM decisions in a context of both the relevant legal and ethical issues and the local and global business environment.

HRM 650 Human Resources Management for Technology
A course in managing research and development and other "technical" staff functions, as well as training and upgrading technology skills of personnel throughout the organization. This includes customers and suppliers, supervision and staff development in a highly decentralized, networked enterprise.

HUM – Humanities

HUM 490 Guided Study
(1.5-4.5 quarter units)
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

HUM 499 Portfolio Project
(Prerequisite: Completion of other major requirements)
In the portfolio project, students submit work from all courses within and related to their major, as well as a final creative and/or scholarly project developed with the approval of a faculty advisor. Students enrolled in the Portfolio Project after completing all other requirements for the major.

HUM 501 Civic Culture and Global Awareness
(Prerequisite: ENG100/101)
Covers the relationships between knowledge and the interdependence of people and focuses on such concepts as citizenship, change and the challenges of migration/immigration patterns, cultural shifts and transnational positioning in our global economy. Also covers the major trends shaping our emerging future and explores the role of citizen- ship education in perpetuating the value systems that provide the requisite knowledge, skills, attitudes and behaviors for a civil global society.

IO - Industrial Organization

IO 610 Industrial and Work Psychology
Students will examine and analyze the literature, methods and practice of industrial and work psychology. Personnel assessment, recruitment, selection, assignment, performance evaluation, training, career development, motivation, compensation, job analysis, labor relations, and the legal constraints on personnel practices will be covered.

IO 620 Organizational Psychology
This course introduces the student to graduate study in the field of Organizational Psychology. It provides an overview of several domains central to Organizational Psychology. It covers Productivity, Organization Theory, Attitudes and Job satisfaction, Work Motivation, Leadership, Group Theory and Processes, Organizational Culture, and Organizational Change and Development.

IO 630 Research and Statistics I
A study of the methods, procedures, and techniques used in the conduct of empirical research on phenomena of interest in Industrial, Organization and Work Psychology or Ergonomics. Design of research will be covered including philosophy of science, forming research questions, ethics in psychological research, psychological constructs, operational definitions, and strategies for experimental, quasi-experimental, and survey research. Descriptive and inferential statistics will be covered including hypothesis testing, sampling distributions, confidence interval estimates, nonparametric statistics, and correlation and regression. Prerequisites: If taken after the sixth course in the program, the Prelim Exam must have been passed.

IO 631 Research and Statistics II
(Prerequisite: IO 630)
A continuation of the study of the methods, procedures, and techniques used in the conduct of empirical research on phenomena of interest in Industrial, Organization and Work Psychology or Ergonomics. Design of research will be covered including consideration of threats to internal and external validity and qualitative analysis. Emphasis will be given to the use of SPSS in multiple regression, analysis of variance, factor analysis, and testing models of mediation and moderation. Statistical approaches to meta-analysis, causal modeling, and measuring change will be covered.

IO 635 Psychological Measurement
(Prerequisite: IO 631)
This course provides graduate students in psychology and human behavior with an understanding of and ability to evaluate various psychometric theories and methods and apply them in practical situations. In addition, the student will be able to analyze integrative and intuitive classic articles in psychological measurement and apply them to dealing with current issues related to measurement in psychology.

IO 640 Work Motivation
(Prerequisite: IO 620)
This course provides the student the initial background necessary to begin dealing with the issues of motivation and behavior at work. It covers both contemporary and classic theories of work motivation including need, cognitive, and reinforcement theories. It examines the sources and consequences of job satisfaction. It also analyzes and evaluates goal setting, VIE theories, job enrichment, reward systems and worker participation. Finally, it evaluates current applications of motivational principles in business and industry and compares research approaches to the study of motivation in the workplace.

IO 645 Training in Organizations
(Prerequisite: IO 610 or IO 620)
A study of the theory and techniques used to design, conduct, and evaluate instructional programs. The basic phenomena of learning such as modern learning theory, principles of adult learning, and conditioning as well as the different approaches to training such as computer assisted instruction, simulation, behavior modification will be covered. Training in a multicultural context and training evaluation will be emphasized.

IO 650 Organizational Development
(Prerequisite: IO 620)
This course encompasses theory and research about facilitating change in individuals, groups, and organizations to improve their effectiveness (e.g., productivity, quality, service, employee satisfaction). The course focuses on understanding OD, how to diagnose an organization and then create an intervention to improve it. The course covers many organizational development theories, diagnostic techniques, and consulting skills needed to use the information to create change. Specific interventions will be examined in detail including structural interventions (e.g., organizational design, job design), interpersonal process interventions (e.g., process consultation, team building), and human resource interventions (e.g., performance management, career development). The course builds knowledge and provides practical application in the some of the techniques.

IO 655 Attitude Theory and Measurement
(Prerequisite: IO 635)
This course focuses on the attitudes, opinions, and beliefs important in organizational settings. Principles of questionnaire and rating scale development for attitude and opinion measurement will be covered. The determinants, consequences, and measurement of job satisfaction and related constructs such as involvement and commitment are included. The practical skills of designing, administering, analyzing, and reporting survey results of employee attitudes and behavior will be also covered.

IO 665 Performance Appraisal and Feedback
(Prerequisites: IO 635 and IO 610)
This course centers on the methods of measuring and evaluating individuals as they perform organi-
zational tasks and on taking action (administrative and/or developmental) with individuals based on such appraisals. The course focuses on both knowledge and skills. The knowledge base includes a thorough understanding of rating scale construction and use, as well as understanding of the relative advantages of different rating sources (e.g., supervisory vs. peer). Also relevant are the areas of measurement theory, data analysis, criterion theory and development, motivation theory, and the factors that underlie interpersonal perception and judgment. The skill base includes procedures for communicating performance evaluations to job incumbents and counseling them in appropriate means of improving their performance. Also, skill in designing a complete performance appraisal and feedback system will be utilized. The course needs while maintaining and/or enhancing worker motivation and/or performance is addressed.

IO 690 Advanced Seminar in I/O Psychology
This seminar will address various advanced topics in I-O Psychology consistent with student interest and faculty availability. Topics may include: Consumer Behavior, Compensation and Benefits, Industrial and Labor Relations, and Employment Regulation. As a seminar the instructor and students will select the most current research and application literature material on the topic and will then analyze and critically evaluate it for potential research and application. Students may also take courses in the Human Factors/Ergonomics program to meet this requirement.

IO 695 Field Placement in I/O Psychology
(Prerequisites: Completion of Prelim and Competency Exams)
The student will be actively engaged in projects under the supervision of a qualified supervisor at the site and of an assigned faculty member. The projects will be aimed at fulfilling specific training objectives mutually agreed to by the student, supervisor, and faculty member with special emphasis given to the acquisition and application of skills. The student will accumulate 200 hours of applied experience in I-O Psychology over a period of from 2 to 6 months. During the period that the Field Placement is active the student will meet for 3 hours per month in group supervision experience with a faculty member. This group supervision will deal with ethical problems encountered by the student and will give the student an opportunity to report on the activities of the placement and discuss the knowledge, skill, and abilities being acquired within assignment. At the end of the placement the student presents a written report on the placement.

IS - Information Systems

IS 301 Management Information Systems
An overview of core concepts related to the emerging interconnections between technology, the organization and information management.

IS 302 Data Mining
(Prerequisites: IS 443 and IS 444)
An introduction to the concepts of data mining as it applies to the data warehouse system environment. Data mining models, methodologies, techniques and common operational issues will be covered.

IS 404 Remote Access and Wireless Networking
(Prerequisites: IS 443 and IS 444)
The course provides an introduction to the fundamental concepts of remote access and wireless networking. The focus is on standard and proprietary wireless solutions including: 802.11, HIPER LAN and major proprietary technologies including Medium Access Control (MAC) Layer, Frequency Hopping Spread Spectrum (FHSS) Physical Layer, Direct Sequence Spread Spectrum (DSSS) Physical Layer, Infrared (IR) Physical Layer and Roaming Standards.

IS 406 Multimedia Applications on the Internet
Presenents various multimedia technologies and provides the students with basic skills to integrate various multimedia technologies into a Web site environment, as well as an introduction to HTML.

IS 407 Web Site Management
(Prerequisite: IS 406)
Focuses on two aspects of Web site management: technical and business aspects. An introduction to Web languages and technologies is made with some in-depth coverage of HTML and CSS. How to manage people, content and suppliers is covered in the business focus.

IS 408 Java Coding for Internet
(Prerequisite: IS 406)
An examination of JavaScript and the JAVA programming language. Development of Web-based applications using JavaScript and JAVA control structures, methods, arrays, graphics, graphical user interface components and multimedia applications.

IS 409 Internet/Intranet Application Development for E-Commerce
(Prerequisites: IS 407, IS 408)
Provides students with the basic skills and understanding to build Internet and intranet Web-based applications for the electronic commerce environment.

IS 414 Data Warehousing
(Prerequisites: IS 302, IS 446)
An in-depth exploration of data warehousing using Oracle 8, as well as technical instructions on how to select the appropriate hardware architecture, design the warehouse for optimal performance, techniques for distributing and mining data and building and running the database.

IS 415 PL/SQL - Database Administration
(Prerequisite: IS 443)
An introduction to programming concepts in an integrated computing environment. Examines contemporary programming design techniques including event-oriented approaches. Students develop applications using Microsoft Visual Basic in a graphical user interface (GUI) environment.

IS 425 Local Area Network Technologies
An introduction to emerging local area network (LAN) technologies. Includes topics such as integration of hardware and software elements, network architecture and protocols.

IS 444 Wide Area Networking Concepts and Services
(Prerequisite: IS 443)
Review of the latest telecommunication technologies, such as ATM, Gigabit, and Ethernet and Fiber Optic connections. Builds on LAN basics from IS 443, including how to implement LAN solutions such as FDDI, Fiber Channel and Gigabit Ethernet and WAN technology, such as Switched Multi-Megabit Data Service and Frame Relay. Also covers integrated high-performance router and switch technologies from Cisco, Bay and 3Com.

IS 446 Data Modeling in Information Technology Environments
An introduction to the concepts of data modeling and relational databases. Covers the methodologies for building a logical model, techniques for organizing and designing relational databases and practical approaches to transform logical models to a stable relational database.

IS 601 Information Systems Strategies, Policies and Ethics
An in-depth analysis of strategies, policies and ethical issues facing the Information Systems manager in today’s business organization. This course also explores the merger of information systems with legal, ethical, cultural, human resources, business philosophies and organizational structures. Through lectures, readings, case analysis and projects the student will learn the strategic role information professionals play in the modern work-place environment. Through analysis, and projects the student will learn the strategic role telecommunications plays in the modern work place, networked environment.
Course Descriptions

IS 602
Network Services and Protocols
(Prerequisite: IS 601)
An in-depth study, from a managerial perspective, of the principles and applications of telecommunications in organizations. Examination of voice, data, analog and digital transmission in local area and wide area networks will be explored and the related existing and emerging communications protocols. Through lectures, readings, case analysis and projects the student will learn the strategic role telecommunications plays in the modern work place, networked environment.

IS 603
Database Management for Decision Support Systems
(Prerequisite IS 601, CST443, IS 302)
An overview course in the development, deployment and management of decision support systems and its components. Topics covered will include relational database management systems, the planning, design, implementation, documentation and maintenance of DBMS following standard methodologies. Through lectures, readings, case analysis and projects the student will learn the strategic role decision support systems play as a pivotal tool in the modern work place for executive decision-making and strategic planning.

IS 604
Organizational Management and Information Systems
(Prerequisite: IS 601)
An in-depth study of organizational management, network infrastructures and information security in the modern organization. Topics covered will include information risk analysis, threats, vulnerabilities and protection methods in the business enterprise. Through lectures, readings, case analysis and projects the student will learn to analyze a business enterprises information management security risks and vulnerabilities and prepare a comprehensive security plan for Intranet, Extranet and Internet infrastructures.

IS 606
End User Information Systems
(Prerequisite: IS 601)
An in-depth study of the end-user approach to systems analysis, addressing the links between information systems technology, people and organizational goals. The course provides a comprehensive, thoroughly up-to-date treatment of IS design, analysis and implementation, with a practical focus on shaping information systems to enhance employee performance and carry out “real-world” business strategies. There is a strong emphasis on workgroup (collaborative) technologies, knowledge management and change leadership.

IS 607
Systems Integration and Client/Server Computing
(Prerequisite: IS 601)
An in-depth study of information systems technology through systems integration and distributed computing, to maximize efficiencies to meet organizational goals. The course provides a comprehensive, thoroughly up-to-date treatment of IS design, analysis and implementation, with a practical focus on shaping information systems to enhance employee performance and carry out “real-world” business strategies. There is a strong emphasis on workgroup (collaborative) technologies, knowledge management and change leadership.

IS 608
Knowledge Management - Knowledge Based Systems
(Prerequisites: IS 601, IS 302, IS 440)
An in-depth study of decision support systems, inclusive of knowledge based systems, expert systems and artificial intelligence and its practical application in the organization. The course provides a comprehensive, thoroughly up-to-date treatment of IS design, analysis and implementa-

tion, with a practical focus on shaping information systems to enhance executive decision making to meet the changing internal and external environment facing business today. There is a strong emphasis on data mining, knowledge management and management decision tools and skills.

IS 609
Automated Knowledge Management Systems
(Prerequisites: IS 607 and IS 608)
An in-depth study of knowledge management through project implementation. The course provides a comprehensive hands-on application of business systems analysis, database integration and creation of decision support systems. There is a strong emphasis on individual and team project development using the acquired knowledge and skills from previous courses. This class represents a cumulative effort of acquired learning.

IS 620A
Master’s Research Project I
(Prerequisite: Completion of all program core requirements with a GPA of 3.0 or better)
This course is the first part of the master’s research project. It focuses on the research and selection of an appropriate topic related to information systems. Students develop the project in a three-to-five member group and utilize skills previously acquired in their respective core curriculum. This is a regular one-month course. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work), or “U” (Unsatisfactory, “D” or below).

IS 620B
Master’s Research Project II
(Prerequisite: Completion of IS 620A)
A continuation of IS 620A. Students develop the project in a three-to-five member group. Students complete a detailed analysis and design of the project within the first two weeks of the course. After completing the project, students formally present their final product to a review panel for evaluation and grading. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work), or “U” (Unsatisfactory, “D” less than C level work).

IT - Instructional Technology

IT 600
Instructional Design
(Prerequisite: IS 601)
An overview of the instructional design process. Topics include learning theories, needs assessment, analysis of subject matter content, development of goals and objectives, classification and sequencing of objectives, design of instructional strategies, selection and integration of media-based delivery systems, design of print and multimedia instruction and formative evaluation strategies.

IT 601
Advanced Instructional Design
(Prerequisite: IT 600)
A graduate seminar/practicum focusing on four aspects of the instructional design process: (1) establishing and maintaining effective relationships with clients and subject-matter experts; (2) analyzing an education/training program and developing potential instructional solutions; (3) developing effective strategies and materials to implement an instructional solution; and (4) examining theories and practical issues involving instruction, information, cognition and technologies as they relate to the instructional design process.

IT 610
Multimedia in Instruction
(Prerequisite: IT 601)
A comprehensive exploration of current techniques for designing multimedia instructional packages. Topics include pattern languages, object-oriented programming, user-task analysis, visualization, 3D modeling, interaction design, multimedia project management and style guides.

IT 615
Distance Learning
(Prerequisite: IT 610)
An exploration of the central issues involved in distance education from print-based correspondence courses to more contemporary, digital approaches. Focuses primarily on the use of Internet e-mail, the World Wide Web, electronic bulletin boards and conferencing systems and video teleconferencing to provide educational opportunities that are time- and place-independent.

IT 620
Web-based Instruction
(Prerequisite: IT 615)
An examination of the most current approaches to using the World Wide Web as a platform for instruction. Review of existing Web-based courses/programs as well as hands-on experience with current design/editing systems including HTML, VRML, Java and CGI scripts.

IT 625
Simulations and Virtual Reality
(Prerequisite: IT 620)
Introduction to the use of simulated environments as a component of education/training programs. Topics include a historical review of simulation, instructional design principles applied to virtual reality as a tool for instruction, current constraints in both stand-alone and networked systems and future possibilities for simulated learning environments.

IT 634
Seminar in Performance Technology
(Prerequisite: IT 620)
An examination of performance technology as a tool for improving organizational effectiveness and applying educational interventions. Reviews literature on performance technology models, approaches to organizational needs analysis, theories and change strategies from the organizational development (OD), human resource development (HRD), human resource management (HRM), environmental engineering (ENG) and electronic performance support systems (EPSS).

IT 641
Evaluating and Improving Instructional Programs
(Prerequisite: IT 634)
An examination of alternative theories and strategies for evaluating the effectiveness of instructional programs. Introduces qualitative and quantitative approaches to student outcome assessment, portfolio evaluation and continuous quality improvement strategies as they apply to the design and improvement of instructional systems.

IT 645
Current Issues in Instructional Technology
(Prerequisites: IT 641)
A topical seminar exploring the most current issues in instructional technology design. Topics might include new developments in CD- or Web-based authoring tools, privacy and/or copyright issues, international standards or emerging training/educational approaches based on enhanced information technologies (e.g., voice or visual pattern recognition, intelligent agents, improved compression algorithms).

IT 650
Instructional Technology Project
(Prerequisites: All other courses in the program)
The final required component of the MS in Instructional Technology. In this course, students complete an instructional design/multimedia capstone project under the supervision of a faculty member. The scope of the project must be such that
students work a minimum of 40 hours. Students meet weekly with a faculty supervisor to make a progress report and discuss issues or problems related to their project.

**ITM 210**
**Computer Network Technologies Overview**
This course emphasizes the network operational concepts and implementations. Provides a basic understanding of network basics and emerging local area network technologies. Includes topics such as integration of hardware and software components, network architecture, protocols, interconnection of networks using bridges and routers, network links using cable modems and DSL and IEEE 802 network access standards. TCP/IP will also be reviewed within the context of networking protocols.

**ITM 330**
**Desktop Applications and Information Processing**
This course provides the solid framework into the concepts and actual implementation of Windows 2000/XP. Topics include understanding of the desktop processing of information to support organizational decision-making and strategic planning. Introduces the client server architecture and focuses on the M/S Office / XP desktop applications that are required to meet and support the real-world projects and various IT initiatives. Hands-on labs are included.

**ITM 310**
**Introduction to Information Technology**
(Prerequisite: IS 301)
An introduction to information technology infrastructure concepts and applications in an integrated information system environment. Focuses on understanding the importance of IT for various types of IT applications within an organization. Topics will include: overview of hardware, software, data resources, telecommunications and networks. The course provides an overview of “what” Information Technology is and how to apply it in various organizations.

**ITM 320**
**Information Technology Management**
(Prerequisite: ITM 310)
An integrated perspective on how to manage, plan and integrate information technology resources. Provides an overview of the concepts of managing information technologies and covers the topics of information technologies planning, information forecasting and information processing. Project management concepts and processes are also reviewed and applied to specific information technology initiatives and tasks related to (1) Desktop technology, processing and administration, (2) network information technology, processing and administration and (3) database systems technology, processing and administration.

**ITM 330**
**Desktop Applications and Information Technology Processing**
This course provides the solid framework into the concepts and actual implementation of Windows 2000/XP. Topics include understanding of the desktop processing of information to support organizational decision-making and strategic planning. Introduces the client server architecture and focuses on the desktop role as the client connected to database systems and network systems that are required to meet and support the real-world projects and various IT initiatives. Hands-on labs are included.

**ITM 340**
**Information Technology Desktop Support**
(Prerequisite: ITM 330)
As a follow-up to ITM 330, this course will introduce the critical role of desktop administration, application installation and desktop support. Topics include security, file backup and recovery, information sharing, user authentication, an introduction to Web site programming concepts using tools such as Microsoft Systems Management Software. The emphasis of this course is on installing, monitoring and the administration of desktop technologies within the client / server architecture for organizational use. Hands-on labs are included.

**ITM 410**
**Computer Network Technologies Overview**
Emphasizes the network operational concepts and implementations. Provides a basic understanding of network basics and emerging local area network technologies. Includes topics such as integration of hardware and software components, network architecture, protocols, interconnection of networks using bridges and routers, network links using cable modems and DSL and IEEE 802 network access standards. TCP/IP will also be reviewed within the context of networking protocols.

**ITM 420**
**Network Management Principles and Practices**
This course covers the network management principles, practices and techniques for managing networks, systems, applications and services. Review of the latest computer network technologies, such as ATM, Gigabit Ethernet and Fibre Optic connections. Build on LAN basics from ITM 410, including how to implement LAN solutions such as FDDI, Fiber Channel and Gigabit Ethernet and WAN technology, such as Switched Multi-Megabit Data Service and Frame Relay. Also covers integrated high-performance router and switch technologies.

**ITM 430**
**Network Administration (local and remote)**
(Prerequisite: ITM 410 and ITM 420)
An overview of the management tools necessary to understand the LAN hardware and software for client server architecture technology. Focuses on the installation and management of the LAN and the connectivity to other systems and networks. The emphasis of this course is on Hands-on learning “how to install, configure and implement the network.”

**ITM 440**
**Database Systems Concepts and Data Modeling**
An introduction to the concepts of data modeling and relational databases. Covers the methodologies for building a logical model, techniques for organizing and designing relational databases and practical approaches to transform logical models to a stable relational database. Introduces fundamental database and application development concepts and techniques. Given database design and application requirements, students design, construct and test a personal computer database and associated application components.

**ITM 450**
**Database Processing and Administration**
(Prerequisite: ITM 440)
This course will provide students with the knowledge and skills necessary to install configure and administer Database Management Systems. Topics include in this course are conceptual understanding of data storage architecture, creation and management of files, groups, databases, tables, queries, locking options, indexes and data views.

**ITM 490 A**
**Information Technology Project I**
(Prerequisite: ITM 330)
A capstone project for information technology application. Students work on an original and significant project that integrates concepts, principles and tools that are taught throughout the program. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work, or “U” (for Unsatisfactory, “D” or below).

**ITM 490 B**
**Information Technology Project II**
(Prerequisite: ITM 490 A)
A capstone project for information technology application. Students complete their projects and present their original and significant projects to a panel of academic and business professionals. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work, or “U” (for Unsatisfactory, “D” or below).

**LAS 100**
**Spanish I**
An introduction to elementary Spanish conversation, reading and writing in a comfortable environment. Gives students insight into the Spanish-speaking world, including the United States.

**LAS 101**
**Spanish for Native Speakers I**
The first of a two-course sequence. Spanish for Native Speakers is designed for bilingual students seeking to become bi-literate. Reading and writing skills are stressed with special emphasis on improvement of written expression, vocabulary development and problems of grammar and orthography. This course seeks to prepare native speakers with little or no formal training in Spanish for more advanced courses.

**LAS 200**
**Spanish II**
(Prerequisite: LAS 100)
A presentation of intermediate Spanish conversation, reading and writing in a comfortable environment. Gives students insight into the Spanish-speaking world, including the United States.

**LAS 201**
**Spanish for Native Speakers II**
Spanish for Native Speakers II is the second of a two-course sequence designed for bilingual students seeking to become bi-literate. Reading, writing and critical thinking skills are stressed with special emphasis on improvement of written expression, vocabulary development and problems of grammar and orthography. This course seeks to prepare native speakers for college-level communication, comprehension and written expression.

**LAS 300**
**Spanish III**
(Prerequisite: LAS 200)
A presentation of advanced Spanish conversation, reading and writing in a cultural studies context. Gives students information about Spanish-speaking cultures in the Americas, particularly the United States. Topics may include history of local communities, labor and educational issues and issues of identity.

**LAS 340A**
**Spanish in the Professional Work Place for English Speakers**
An introduction to Spanish grammar structures, vocabulary and information in cultural interaction. Gives English-speaking students an effective tool for communication with Spanish speakers in the workplace.
An introduction to case brief writing and legal negotiating principles and uses practical student
LAW 402
free speech and criminal justice. A study in the use of our legal system to resolve societal and individual problems. Reviews contem-
A comprehensive overview of legal research using primary/secondary, federal and state legal authori-
LAW 310
LAW 304
LAW 305
LAW 240
LAW 230
LAW 220
LAW 210
LAW 100
LIT 337
LIT 338
LIT 342

An introduction to case brief writing and legal problem analysis. The classroom discussions employs the Socratic method used in law school classes. LAW 420
Advocacy
A course in advocating in the use of our legal system to resolve societal and individual problems. Students assess their own leadership philosophy and analyze the relationship between their leadership style and selected theories of leadership.
LAW 300
Legal Aspects of Business I
A survey of contracts, sales, agencies, personal property, commercial paper and associated topics. Emphasizes prevention of litigation and liability arising from business operations.
LAW 305
Legal Aspects of Business II
(Prerequisite: LAW 304. A sequential course to LAW 304.) A survey of business organizations (partnerships, corporations, government regulations), property (real property and leasing, estates, community property), business torts, business crimes and associated topics. Emphasizes prevention of litigation and liability arising from business operations.
LAW 230
LAW 220
LAW 210
LAW 100
LIT 337
LIT 338
LIT 342

An examination of the basic cultural differences generally encountered in the workplace. Gives stu-
dents strong experience and clear perspectives on cross-cultural communication in the work place. Covers modes of teaching including theatrical rep-resentation, lectures, videos, guest speakers and oral presentation.

LAW 490
Guided Study in Spanish
(1.5-4.5 quarter units) Individual study under direction of instructor. Requires prior approval of appropriate academic department.

LAW - Law

LAW 304
Legal Aspects of Business I
A survey of contracts, sales, agencies, personal property, commercial paper and associated topics. Emphasizes prevention of litigation and liability arising from business operations.

LAW 305
Legal Aspects of Business II
(Prerequisite: LAW 304. A sequential course to LAW 304.) A survey of business organizations (partnerships, corporations, government regulations), property (real property and leasing, estates, community property), business torts, business crimes and associated topics. Emphasizes prevention of litigation and liability arising from business operations.

LAW 310
Ligitation
A broad-based overview of the various stages of the civil/criminal litigation process. Covers the complete litigation process starting from the initial filing of the criminal information and/or civil com-
plaint, progressing through the client interview, motion and trial phase. Explores the process of court pleading and discovery, including interroga-
tions, depositions and the voir dire process. Also covers heavy strategies and the role of the law office assistant. Students must demonstrate their legal knowledge and understanding of the material through the drafting of a civil complaint, accompa-
yning forms, summons and depositions.

LAW 311
Legal Research and Writing
A comprehensive overview of legal research using primary/secondary, federal and state legal authori-
ties. Emphasizes use of both manual and computer-assisted legal research strategies for actual prob-
lem-solving applications. Introduces legal writing skills through class instruction and practical exer-
cises to develop a systematic approach to concise legal writing.

LAW 400
Current Legal Issues
A study in the use of our legal system to resolve societal and individual problems. Reviews contem-
porary issues including minority rights, abortion, free speech and criminal justice.

LAW 402
The Art of Negotiation
A workshop course for both legal and pre-profes-
sional students to develop the verbal and analytical skills needed to be effective negotiators in the practice of law and business. Examines general negotiating principles and uses practical student exercises.

LAW 410
Introduction to Law and Legal Analysis
An introduction to case brief writing and legal problem analysis. The classroom discussions achieve competitive advantage. Emphasis is placed on the technical skills needed in storing, updating, and retrieving information; building and using Web-based applications and business forecasting. Students participate in a classroom/laboratory environment to facilitate application of theory to real world situations.

LED 607
Financial Management for Leaders
This course integrates the principles and practices of finance for leaders in public and private sectors. Topics include the analysis and interpretation of financial statements, budgeting, and financial accounting in decision-making. Special attention is paid to global financial leadership issues and opportunities. Emphasis is placed on real-world problem solving in global organizations. Students analyze case studies and work in teams to develop financial leadership strategies appropriate to multi-national firms in the 21st century.

LED 608
Seminars in Leadership
This course is an in-depth, integrative study of four topics from a leadership perspective: (1) Negotiation and conflict management; (2) human resource policies and procedures (3) project management; and (4) performance management. Students develop two research papers of at least ten pages in length demonstrating mastery of two of the four topics and the ability to effectively inte-
grate knowledge of key business disciplines. In addition, students give a short presentation of approximately 10 minutes on one of their research paper topics utilizing the appropriate technology.

LED 609
Capstone Project Course
(Prerequisite: completion of 6 of the preceding core courses) The fundamental prerequisite of this course is QMT 601 “Statistics and Business Research Methodology.” Nevertheless, students should be aware that the school considers the project course to be a capstone experience and therefore students should complete the course after they have com-
pleted a minimum of six of the other nine core courses, and they may take it concurrently with other core courses or with elective courses. Each student works closely with a faculty member, who will act as the supervisor of the project. LED609 is three months in length. Grading is by "F" (for Honors, "B" or better work), "S" (for Satisfactory, “C” work), or “U” (Unsatisfactory, “D” or below).

LIT - Literature

LIT 100
Introduction to Literature +
(Prerequisites: ENG 100/101) An overview of the main genres of literature, including fiction, poetry and drama. Examines literary language and different approaches to literary criticism designed to increase student confidence when responding to literature.

LIT 337
American Literature +
(Prerequisites: ENG 100/101) An examination of literary heritage of the United States. Includes study of major works and move-
ments in a variety of genres.

LIT 338
Shakespeare
(Prerequisites: LIT 100) An examination of major works of William Shakespeare.

LIT 342
World Literature +
(Prerequisites: ENG 100/101) An introduction to the literary arts of Africa, the Middle East, Asia, Latin America, the Caribbean
Course Descriptions

and Native North America. Presents a variety of genres, as well as both classical and contemporary works.

**LIT 360 Literary Theory**  
(Prerequisite: ENG 101)  
A survey of major classical and contemporary arguments about the nature of literature, literary expression, and literary experience.

**LIT 430 Children’s Literature and Literacy**  
(Prerequisites: ENG 101, LIT 100, ENG 350, PSY 301)  
Provides students with the foundations necessary for teaching children to read and learn through reading. It emphasizes the role of literature in literacy development and learning across the curriculum from K-8. Students learn to identify the stages in reading development, to select appropriate literary texts for diverse learners at each stage, analyze children’s literary texts and assess the developing literacy and language development of young learners. BAMS candidates must take this course in conjunction with LIT 430A Children’s Literature and Literacy Practicum.

**LIT 430A Children’s Literature and Literacy Practicum**  
(1.5 quarter unit)  
(Prerequisites: ENG 101, LIT 100, ENG 350, PSY 301)  
This practicum course accompanies LIT 430 Children’s Literature and Literacy. The practicum provides the opportunity for students to observe and participate in the language arts activities of the public school at the K-2, 3-5 and 6-8 grade-level clusters. The fieldwork integrates knowledge about children’s literature and literacy with the academic content from at least one other subject area described by the California Student Academic Content Standards and State Curriculum Frameworks, focusing on grades K-8. Note: LIT 430A, taken in conjunction with LIT 430, meets twice a month on Saturday for two hours during the months of LIT 430 (eight contact hours in the NU classroom). The 15 fieldwork hours take place in supervised public school classrooms in which students observe language arts activities, read stories with children and work one-on-one with an English language learner.

**LIT 442 Mythology**  
(Prerequisites: ENG 100/101)  
An examination of mythology. This course recognizes that myth-making is a creative activity central to all cultures, including our own society. Students analyze and compare mythological narratives from a variety of cultures.

**LIT 443 World of the Short Story**  
(Prerequisites: ENG 100/101)  
A look at short stories. The reading list includes varieties of form and style in short fiction drawn from world literature and focuses on contemporary writing.

**LIT 446 Studies in Poetry**  
(Prerequisite: LIT100)  
An examination of the formal and thematic concerns of representative works of poetry of the Renaissance, Romantic, and Modern eras.

**LIT 450 Studies in the Novel**  
(Prerequisites: ENG 100/101)  
A look at the novel as a dominant literary form in the 18th, 19th and 20th centuries in both the English and non-English traditions. Examines varieties of plot construction and character portrayal.

**LIT 456 Studies in Drama**  
(Prerequisite: ENG 101)  
An examination of the conventions and varieties of dramatic texts and performance, focusing on drama of the 20th century. Includes discussion of both Western and non-Western traditions.

**LIT 460 Gender and Literature**  
(Prerequisites: ENG 100/101)  
A study of the representations of gender in literature to better understand changing literary aesthetic. Discusses assumptions about the ways gender permeates language and discourse.

**MAT - Teaching**

**MAT 640 Applications of Research for the Art of Teaching**  
This course is designed to provide classroom educators with the research and skills required to understand, interpret, generate and evaluate research relevant to their lives as professional educators. The work of the classroom educator will be emphasized throughout the course as students produce a major educational writing project. This course will include relevant aspects of professional writing, while remaining focused on the practical needs of the classroom educator who wishes to join the larger professional community in their field of specialty. Must be taken as the last course in the MAT program.

**MAT 641 Cultural Democracy: Contemporary, Local and Global Issues**  
The course content examines the ways in which individuals in institutional roles operate on culturally democratic policies and practices, including how formal and informal political forces influence culturally democratic programs and culturally relevant curriculum development and implementation. The course emphasizes success in systemic multicultural competence development and examines the observable and hidden evidence of organizational transformation.

**MAT 642 Program Design: Curriculum Theory, Design and Assessment**  
This course examines the underlying principles that have shaped outcome-based learning; content based standards, accountability and need for education reform. The course will emphasize evaluation of school programs, student assessment and program design using the California Coordinated Compliance Review guidelines.

**MAT 643 Models of Teaching, Theories, Applications and Practice**  
This course explores how a variety of teaching models and learning theories are applied in instructional contexts. Specific application of some models and theories will be discussed in class and presented in student-designed curriculum projects.

**MAT 644 Foundations and Principles of Curriculum**  
This course surveys the field of curriculum with specific emphasis on foundations, principles and issues for public educators in California’s linguistically and culturally diverse society. The course identifies various approaches to curriculum and the development, design, implementation and evaluation of curriculum. Application of curriculum approaches is provided through student-designed analyses of curriculum.

**MAT 645 Developing Fluency in Reading**  
Provides a research-based analysis of the phonology, morphology and orthography of English, with attention to teaching students at all grade levels to become proficient readers through recognizing sound-print relationships. Candidates will incorporate current approaches to phonemic awareness, explicit phonics instruction, recognition of high-frequency words and spelling patterns for both English language speakers and English language learners.

**MAT 646 Comprehension Strategies and Procedures**  
An investigation of meaning-making at both the local (discourse) and global (general knowledge) levels. Covers research-based models of discourse processing and representation construction. Introduces strategies to promote guided reading, independent reading and study skills in all content areas, using the concepts of connecting background experience and applying self-monitoring strategies.

**MAT 647A and B Language Arts Assessment and Instruction I and II**  
(Prerequisites: MAT 645, MAT 646)  
A two-course series that develops the ability to assess the strengths and needs of students in reading, writing and oral expression through multiple measures. Includes classroom-based formal and informal, group and individual assessment. Also emphasizes assessment-based instruction, particularly early intervention strategies using flexible grouping, small groups and one-on-one tutoring. Candidates must complete a field experience requiring assessment and instruction of students, including non-readers and English language learners. Grades will be assigned at the end of the second course.

**MAT 670 The Theory of Research-Based Best Practice Instruction: An Overview**  
Covers theories and research on Best Practices in education. Best Practice research on effective school emphasizes classroom instructional practices, classroom management, school organization and planning, strategies for linguistically and culturally diverse students to access the core curriculum, instructional leadership, teaching environment, teaching strategies, peer assistance, peer review process and parent and community support.

**MAT 671 Applied Best Practice Strategies in Classroom Instruction**  
Upon completion of this course, participants will possess the knowledge, skills and abilities identified in the California Standards for the Teaching Profession. The emphasis is on developing a repertoire of Best Practice Teaching Strategies that can be applied to classroom instruction and assessment of diverse learners.

**MAT 672 Integrating Multimedia Interactive Technology in Best Practice Instruction**  
Students in this course will learn how to integrate, differentiate, align and individualize instruction using technology and multimedia technologies.

**MAT 673 Differentiated Instruction and Target Teaching**  
Participants in this course learn how to increase student achievement by improving the match between the learner’s unique characteristics and various curriculum components; how differentiation involves changes in the depth or breadth of student learning; and how differentiation is enhanced through the use of appropriate classroom management, pre-testing, flexible small groups, tiered assignments, and all related teaching and the availability of appropriate resources.

**MAT 674 The Theory of Research-Based Practice Instruction**  
Consists of 180 clock hours of practicum experience. Students will observe best practice teachers and be observed. Teachers will be required to demonstrate Best Practice competency on the Best Practice Continuum, including delivery of instruction, classroom management and organization, understanding and organizing subject matter for student learning, lesson planning and designing.
teaching experiences for all students, drawing on and valuing students’ backgrounds, interests and developmental learning needs, collecting and using multiple sources of information to assess student learning and planning for professional growth.

**MFA - Fine Arts**

**MFA 660 Film Art Studies**

An intensive study of film arts, this course provides an overview of the history, theory, techniques of film and filmmaking, American and international; an introduction to film art studies in the context of cinema concepts and terminology used throughout the program.

**MFA 665 Film Theory**

An overview of film theory designed to give students the critical tools necessary to describe and evaluate various aspects of cinema art, this course introduces concepts from a wide range of approaches, including Deconstruction, Existentialism, Marxism, Post-Theory, phenomenology, psychoanalysis; focusing on such thinkers as Althusser, Baudrillard, Deleuze, Derrida, Sembach and Truffaut.

**MFA 666 Film History: The Silents**

A survey of films produced before the advent of recorded sound, this course focuses on the early national cinemas of French, German, the Soviet Union and the United States; attention is directed to concepts of visual narratology, montage and the conventions of acting, set design, lighting and movement.

**MFA 667 Film History: American Film**

A study of the development of cinema in the United States, this course is a broad overview of American film making; topics include genre, the relationship of film to art, politics, religion and society and the treatment of ethnic groups, women and class by Hollywood.

**MFA 670 Film Genre Studies**

A course in a specific genre of film in an international or American historical context, including the western, the epic, the Biblical epic, film noir, the crime story, science-fiction adventure, anti-prop, or other film genre; an intensive study of the conventions, artists, styles associated with specific genres and the historical conjunctures and circumstances in which the genre appeared.

**MFA 671 World Film**

A study of the film tradition of a specific nation or group of nations other than the United States, this course is an intensive study of contrasting visual styles of filmmaking, directors, artists and themes prominent in the medium; a survey of the elements of film making and theory as developed with one country; discussion of transcultural and transcendent film categories, universals, values and the essence of film art.

**MFA 680 Screenwriting**

A practical survey of writing skills necessary to write film scripts using the conventions and formulas of specific genres; attention to plot development, characterization, description and dialog; a study of formatting accepted in the film industry; an intensive writing course in which the student completes one short screenplay.

**MFA 681 Storyboarding**

A study of the organizational techniques involved in the visual-narrative of storyboarding, including scene description, movement, transitions, set-up and special instructions; an intensive study of visualization; complements Screenwriting (MFA718).

**MFA 682 Animation**

A study of the art of animation, this course includes a brief overview of the history and theory of animation art and an introduction to techniques involved in the production of short animations; complements Screenwriting (MFA 718) and Storyboarding (MFA 710).

**MFA 683 Direction**

An advanced study of the techniques, styles and devices commonly used in film direction, including elements of cinematography, screenwriting and acting; attention given to the visual syntax of film narratology.

**MFA 685 Great Directors: American**

The study of the canon of work of a specific American director; a comprehensive study of the artistic achievements of a specific director; detailed interpretation and analysis of the techniques and concepts employed by a specific director.

**MFA 686 Great Directors: International**

The study of the canon of work of a specific director, excluding American; a comprehensive study of the artistic achievements of a specific international director; detailed interpretation and analysis of the techniques and concepts employed by a specific international director.

**MFA 690A Thesis Research**

The thesis is the capstone of the Master of Fine Arts in Film Art Studies; this course provides the student a venue by which to demonstrate the theoretical and practical production skills acquired in the program. MFA 690A includes selection of topic, mentor and thesis committee; bibliographical research; general outline and organization; and, the first draft of the final thesis.

**MFA 690B Thesis Writing** *(Prerequisite: MFA 690A)*

The thesis is the capstone of the Master of Fine Arts in Film Art Studies; this course provides the student a venue by which to demonstrate the theoretical and practical production skills acquired in the program. MFA 690B includes writing of intermediary draft, corrections and the final draft of the thesis.

**MGT - Management**

**MGT 400 Ethics in Law, Business, and Management**

This course is an examination of values and ethics in American business utilizing debate and written exercises. It also considers ethical issues arising in the global business environment.

**MGT 409C Principles of Management and Organization**

This course is a survey of the theories, techniques, and concepts of management in organizations and the role of the manager in a technologically-orientated society.

**MGT 420 Introduction to Total Quality Management in the Context of Management and Leadership**

The foundation and orientation course for the TQM certificate program, it surveys the history and development of total quality management within the general context of organizational management theory. It orients students to the philosophy of TQM, the impact of TQM on the management’s orientation towards supplier and customer relations, the importance of written communications, the impact of technology in the workplace, and the importance of quantitative analysis in the implementation of TQM/TOC. The class also explores the effect that striving for quality has had on the globalization of markets and the competitive emergence of world-class standards, including the Deming Prize and the Malcolm Baldrige National Quality Award.

**MGT 421 TQM Tools of Continuous Process Improvement** *(Prerequisite: MTH 210)*

A survey of the basic statistical skills and research methods used to analyze organizational systems. Topics include levels of data and statistical measurement, analytical approaches to problem solving, Pareto charts, run charts, attribute and variable control charts, flow charts, cause-effect diagrams, is/is not analysis, histograms, and scatter diagrams. Students take a set of data that represent the analysis of an organizational process and apply the appropriate statistical procedure, analyze the results of the procedure, and develop a recommendation based on the analysis.

**MGT 422 Team Building, Interpersonal Dynamics, and Empowerment**

An overview of the issues of quality applied to human resource management. Topics include the delegation of authority and empowerment, work groups, team building, and employee involvement, reward/recognition programs and employee morale, and the importance of written and oral communication skill in the delegation, sharing, and execution of work. Students gain a clearer understanding of the ways the workplace is changing to improve productivity and profitability.

**MGT 423 Organization and Planning for Customer Satisfaction**

This course is an examination of (1) the organization and development of TQM teams in both product and service organizations, and (2) the application of continuous process improvement measurements on customer satisfaction in both product and service organizations. It presents the major concepts and approaches to leadership development and strategic planning for TQM. Topics include methods used to determine customer requirements and expectations, meetings customer expectations, setting standards and managing relationships, incorporating customer satisfaction measurements, leadership involvement, quality value creation, promotion of quality, quality strategic planning, and organizational assessment. Students learn how to use the framework of customer satisfaction concepts and measurement methods in the quality management process. They also learn how senior management can create a quality culture within an organization and provide visible guidance to employees.

**MGT 424 TQM and Operational Results**

An examination of the process of Benchmarking, topics include planning for improved quality on feedback drawn from internal process measures, the role of customer feedback comparisons with similar organizations (benchmarking), using information from suppliers, and supplying information to users. Students learn to benchmark and factor the outcomes with summaries of other data into quality operational planning.

**MGT 425 TQM Capstone: Implementing the Quality Process**

A capstone course covering the total systems approach to assure quality services and goods, topics include product/service design, quality function deployment, process quality control, continu-
Course Descriptions

This is an individual study under direction of instructor. It requires prior approval of appropriate academic department.

MGT 490 Guided Study

A graduate seminar in topics of emerging trends and areas of interest in international business, the topics might include marketing and doing business in Eastern Europe, implications and opportunities created by NAFTA, emerging markets for high-tech industries, and the progress of European market integration. This is individual study under direction of instructor. It requires prior approval of appropriate academic department.

MKT - Marketing

MKT 420 Principles of Consumer Behavior

A study of the dynamics of human behavior and how it relates to the purchase decision. This course provides an in-depth view of the many factors that influence the consumer's decision-making process including personal, social, culture, values structure, perception, and learning. Course material is related to market strategy development through lecture, case, and field study.

MKT 430 Introduction to Global Marketing

An introduction to the fundamentals of trade, finance, and investment in the international context, the course discusses the international monetary framework and foreign exchange in detail. It reviews theory and history of international trade, including exporting and importing, regional economic integration, and international marketing.

MKT 434 Introduction to Market Research

A course that gives the student an overview and practical application of contemporary methods for gathering, analyzing, and preparing market research for use in marketing decision making. It focuses on defining organizational information needs and designing appropriate research methods to obtain it. Specific topic areas include qualitative and quantitative research methods, secondary research, internal market intelligence systems, and data analysis.

MKT 440A Personal Selling

A survey of the essential principles of salesmanship and selling techniques, the course includes the approach to non-manipulative selling and benefit identification. Also covered is how to identify the right market segment, prospect, and plan for personal selling. It introduces direct selling and provides exercises that enhance the direct selling process.

MKT 441 Physical Distribution Management

A study of all phases of management skills in the field of physical distribution with emphasis on customer service and international distribution strategies, the course covers distribution strategies for products and services. It pays specific attention to direct distribution (from manufacturing to retail).

MGT 630 Global Business Environment

An analysis of the value, ethics, and ideologies in American business and their applications to current issues in management and business within the contemporary setting, it focuses on corporate behavior and decision making. Through lecture, case study, debate, and readings, students develop an ethical outlook on a wide variety of workplace issues, such as discrimination, toxic wastes, advertising, product safety, and international operations.

MGT 651 Managing Safety Issues and Regulations

An analysis of current issues manifested by major legislation and the significant health and hygiene regulations faced by health safety managers, the course covers safety program models including workers compensation insurance, fire protection, product liability, and other casualty risks involved.

MGT 680 Topics in International Business

A graduate seminar in topics of emerging trends and areas of interest in international business, the topics might include marketing and doing business in Eastern Europe, implications and opportunities created by NAFTA, emerging markets for high-tech industries, and the progress of European market integration.

MGT 690 Guided Study

A capstone course for MBA students. To enroll in MGT 602, MBA students must first complete at least 30 quarter units of the MBA program requirements, other than MGT 610C. An in-depth study of general management functions as organizations adapt to the global environment, this course emphasizes environmental characteristics that make strategic management critical to organizational success, including assessment of organizational strengths and weaknesses, identification of opportunities and threats, optimum response to unanticipated events, and strategic analysis in turbulent environments. It also analyzes the sociocultural, political, economic, ethical, technological, and regulatory environments that have an impact on businesses in multicultural settings. The course places special focus on the impact of NAFTA and GATT upon the strategic management of business enterprises. Explores global business opportunities provided through new technologies for both small firms and large corporations.

MGT 610C MBA Project

A project where students work in teams or as individuals under the guidance of an assigned faculty advisor. Students clarify research topics and identify data sources in preparation for the project. Students then gather data and present their research in both written and oral form to faculty and classmate(s). Grading is by "H" for Honors, "B" or better work, "S" for Marginal, "C" level work or "U" (Unsatisfactory, "D" or below). MGT 610C is two months in length.

MGT 635 The Organization Consulting Process

A survey of the history, values, assumptions, methods, and limitations of the organization consulting process, the course discusses both internal and external consulting as well as roles of managers as both consultants and administrators of the consulting process.

MGT 637 Comparative International Management

This is an individual study under direction of instructor. It requires prior approval of appropriate academic department.

MGT 642 Strategic Business Management

A study of the application of strategic management principles to the development, organization, financing, and operation of a business enterprise, this course integrates and applies skills and knowledge gained in other business courses, especially those in management, marketing, accounting, and finance. To enroll in MGT 642, students must first complete all "Preparation for the Degree" courses and at least four of the courses listed as upper-division BBA requirements.

MGT 651 Production and Operations Management I

An examination of the leadership imperatives for both small firms and large corporations.

MGT 652 Strategic Decision-Making in Global Business

A capstone course for MBA students. To enroll in MGT 602, MBA students must first complete at least 30 quarter units of the MBA program requirements, other than MGT 610C. An in-depth study of general management functions as organizations adapt to the global environment, this course emphasizes environmental characteristics that make strategic management critical to organizational success, including assessment of organizational strengths and weaknesses, identification of opportunities and threats, optimum response to unanticipated events, and strategic analysis in turbulent environments. It also analyzes the sociocultural, political, economic, ethical, technological, and regulatory environments that have an impact on businesses in multicultural settings. The course places special focus on the impact of NAFTA and GATT upon the strategic management of business enterprises. Explores global business opportunities provided through new technologies for both small firms and large corporations.
indirect distribution (agents, independent representatives, and VARs), and direct marketing (fulfillment centers).

MKT 442A Public Relations
(Prerequisite: MKT 402A)
A discussion of how to plan and implement a public relations campaign. The course examines public relations, publicity, editorial, and relationships with the press. Specifically, it investigates how to prepare and implement public relations campaigns for individuals as well as private and public enterprises, and how to choose and work with public relations firms.

MKT 443 Introduction to Advertising
(Prerequisite: MKT 402A)
An introduction to the principles of Advertising, the course discusses targeting, positioning, and consumer purchasing motivations as necessary tools to designing effective advertising. Students learn how to select and use various advertising media to meet specific marketing problems and opportunities. It examines radio, television, print media, outdoor advertising, and media budgeting in detail.

MKT 445 Direct Marketing Basics
(Prerequisite: MKT 402A)
A survey of direct marketing principles and techniques, this course includes direct mail, catalogs, telemarketing, direct response print and broadcast media, Internet marketing, database marketing, and interactive marketing. It discusses in detail the emerging direct marketing technologies that bring direct marketing out of the back room and into the marketing mainstream.

MKT 602 Marketing Management
An in-depth examination of marketing environments and the impact marketing activities have on organizational operations in competitive, global, multicultural business settings, the course discusses both domestic and international frameworks of the fundamental marketing functions of product, pricing, distribution, and promotion. It explores and analyzes modern marketing problems and solutions from conceptual, legal, and ethical perspectives. It explains marketing information systems and the use of advanced technologies in marketing decision making.

MKT 620 Consumer Behavior
(Prerequisite: MKT 402A or MKT 602 or EMB 684)
An in-depth study of how psychological, sociological, and cultural variables influence buying behavior and marketing strategy development. It focuses on identifying the relevant behavioral variables in a given product purchase situation and determining how marketing strategy can be adapted to meet the ways in which consumers perceive, select, and buy. It uses advanced cases and a field study project.

MKT 633 Sales Management
(Prerequisite: MKT 402A or MKT 602 or EMB 684)
This course is a survey of all facets of sales management, including estimating sales potential and forecasting sales, managing territories, selecting, training, motivating, supervising and compensating the sales force, and interfacing with other company functions. Also covered are typical sales management problems and potential solutions.

MKT 634 Market Research
(Prerequisite: MKT 402A or MKT 602 or EMB 684)
An examination of principles and techniques of market research with emphasis on quantitative applications, this course covers marketing information needs and designing appropriate research methods to obtain information. It covers qualitative and quantitative research methodologies, secondary research, internal market intelligence systems, and data analysis.

MKT 635 Advertising Management and Marketing Communications
(Prerequisite: MKT 402A or MKT 602 or EMB 684)
An analysis of marketing communications from business, social, economic, and political perspectives, this course provides an in-depth discussion of advertising and promotion as key tools in marketing new and established products. It examines advertising planning and management, research, creative development, media selection, direct response, and advertising agencies. Emphasis is on new media technologies and the growing use of alternative media in communicating with selected publics.

MKT 670 Selected Topics in Marketing
(Prerequisite: MKT 402A or MKT 602 or EMB 684)
This course that is developed on request from regional centers to serve specific regional educational and business needs. Potentially it covers topics such as telecommunications, computers, health care services, marketing communications, retail management, and/or industrial marketing.

MM 330 Communication Tools
(Prerequisites: ENG 100/101 and COM 100)
An overview of digital communication tools and techniques used in today’s workplace, as well as an introduction to message design and the social and ethical responsibilities attending the digital communication field. Through intensive practice, students learn how to write for various business purposes, such as analytical, descriptive, procedural, summative and technical. They learn copy editing and formatting techniques in conjunction with traditional and online research skills. Software instruction includes MS Word, PowerPoint, Internet browsers, compression utilities and FTP programs.

MM 331 Principles of Graphic Design
(Prerequisites: ENG 100/101 and COM 100)
A hands-on introduction to the principles and techniques of graphic design for print and digital media that covers print vs. digital production; resolution and size considerations; vector vs. raster formats; color theory and layout principles; typography; file formats, output and management. Software instruction is in Adobe Photoshop.

MM 332 Electronic Design and Layout
(Prerequisites: ENG 100/101 and COM 100)
An introduction to layout design for print and Web publishing that covers typography, layout theory, prepress production methods and project management. Emphasizes practical development techniques to produce digital visual images efficiently. Software instruction is in Adobe Illustrator.

MM 335 Desktop Publishing
(Prerequisite: MM 332)
This course covers the stages of publishing in print media from the inception of a project to the distribution of a finished product. It provides students with the opportunity to put their theoretical and classroom knowledge to practical use in the design, creation and printing of a project. Topics include: typography, layout theory, prepress production and project management. Students learn through intensive practice layout techniques for digital and print delivery. Software instruction is in QuarkXpress.

MM 336 2-D Graphic Imaging
(Prerequisites: MM 331 and MM 332)
An intermediate course in computer-aided photographic manipulation and the merging of vector and raster graphic files used in web authoring and print design. Students produce images in a variety of digital formats, applying aesthetic and compositional design principles. Covers technological limitations and internet graphics. Software instruction is in Adobe Photoshop and Illustrator.

MM 340 Principles of Web Design
(Prerequisites: ENG 100/101 and COM 100)
Introduces the terminology, history and evolution of web design and the use of hypertext. Provides an overview of effective web page design and efficient site architecture. Covers content development, navigation and usability. Software instruction is in Dreamweaver.

MM 350 Web Presentation
(Prerequisites: MM 332 and MM 340)
Provides a hands-on introduction to the basics of Web presentation. Students apply aesthetic and usability criteria to produce Web presentations, "movies" and other animated components for placement into Web sites. Covers technological constraints of Web presentation and animation, appropriate uses of motion in a Web page and digital asset management for optimal delivery of animated content. Software instruction is in Macromedia Flash.

MM 360 Digital Audio and Video
(Prerequisites: ENG 100/101 and COM 100)
Provides a hands-on introduction to the basics of digital audio and video. Students produce and edit a/s clips and apply aesthetic and usability criteria to their placement in Web sites and CD-ROM presentations. Covers technological constraints of video and sound files; appropriate uses of sound and video to enhance message delivery; and the management of digital assets for optimal delivery of media. Software instruction is in Adobe Premiere, Sonic Foundry Sound Forge and Acid Pro.

MM 370 Digital Interactivity
(Prerequisites: MM 332 or MM 336)
Provides a hands-on introduction to the basics of Web interactivity and its potential for e-business, entertainment and education. Students apply aesthetic and usability criteria to visual, textual and aural components integrated into interactive presentations, games and instructional media. Covers technological constraints of Web delivery, interactive design and computer mediated interaction techniques. Software instruction is in Macromedia Director.
### Course Descriptions

**MM 380 3-D Modeling and Rendering**  
(Prerequisites: ENG 100/101 and COM 100)  
Provides a hands-on introduction to the basics of 3-D graphics in still and animated formats. Students produce basic 3-D elements and apply aesthetic and usability criteria to their placement in digital and print media applications. Covers technological constraints of 3D applications; appropriate uses of still and motion 3D elements to enhance message delivery; and the management of digital assets for optimal delivery of media. Software instruction is in 3-D Studio Max.

**MM 410 Authoring Corporate Training I**  
(Prerequisites: ENG 100/101 and COM 100)  
Provides an introduction to instructional design for corporate training through e-learning and multimedia. Students evaluate training packages according to instructional design theory and learn multimedia authoring skills to apply to instructional modules they produce. Covers learning theories, authoring tools, multimedia development and usability criteria applied to instructional media. Software instruction is in Macromedia Authorware.

**MM 411 Authoring Corporate Training II**  
(Prerequisite: MM 410)  
Provides an overview of advanced techniques of instructional design and development for corporate training through e-learning and multimedia. Students develop and conduct in-depth needs assessment procedures to determine instructional content and delivery style of digital training modules they produce—organizing, editing and programing content for Web and CD-ROM delivery. Covers project management, message design and usability testing for performance. Software instruction is in Macromedia Authorware.

**MM 420 Multimedia Arts Portfolio Project**  
(Prerequisites: All Multimedia Arts Core Courses)  
In this two-month capstone course, students assemble a portfolio of their best work from previous Multimedia Arts courses and edit and/or improve those pieces. Suitable to show a prospective employer, the portfolio will include digital presentations—graphics, Web sites and animations—and printed samples, as well as multimedia documentation, such as creative briefs, proposals, flow charts, executive summaries and descriptive critiques.

**MM 430 Advanced 2-D Imaging**  
(Prerequisite: MM 336)  
An advanced course in computer-aided graphic manipulations as used in Web authoring. Students produce images in Web-standard formats, applying aesthetic and composition design principles. Covers strategies to overcome technological limitations of intent graphics; software add-ons and extensions to aid graphic design; and digital design project management theory and practice to produce graphics efficiently. Software instruction is in Adobe Photoshop.

**MM 440 Multimedia Design for the Web**  
(Prerequisite: MM 340)  
Intermediate Web page authoring and site design. Students compile graphics, animation and text to produce site that demonstrates e-business, entertainment and distance education uses of the Internet. Students apply aesthetic and usability criteria to Web sites developed according to industry practice. Software instruction is in Macromedia Dreamweaver.

**MM 445 Management of Web Projects**  
(Prerequisite: MM 440)  
Advanced course in managing the development of Web-based projects. Students use project management tools as they produce Web sites for e-business, entertainment and distance education. Covers product life cycle planning, risk analysis and client-oriented rapid development. Software instruction is in MS Project, Excel and Word.

**MM 450 Advanced Web Presentation**  
(Prerequisites: MM 350 and MM 340)  
Provides hands-on training in advanced Web presentation techniques. Students learn media integration techniques for quick-loading Web sites that use streaming vector animation and sound. Covers conceptual approaches to building interactivity into Web presentations; advanced usability testing for user satisfaction; and digital asset management theory and practice. Software instruction is in Macromedia Flash.

**MM 460 Advanced Digital Audio and Video**  
(Prerequisite: MM 360)  
Advanced digital audio and video production techniques. Students write scripts, create storyboard and program A/V clips for business, entertainment and educational purposes. Covers advanced Web casting techniques and strategies to overcome technological limitations of Web video and sound. Software instruction is in Sonic Foundry Sound Forge, Adobe Premiere and Terran Media Cleaner.

**MM 470 Interactive Multimedia**  
(Prerequisite: MM 370)  
Provides hands-on training in the production of interactive products for e-business, entertainment and education. Students conduct needs assessments for a variety of potential interactive presentations, games and instructional media and apply project management skills to a product they produce. Covers strategies to overcome the technological constraints of Web and CD-ROM delivery; interactive design theory and practice; needs assessment procedures; and methods of project management. Software instruction is in Macromedia Director.

**MM 471 Advanced Interactivity for 3-D**  
(Prerequisite: MM 370)  
Provides hands-on training in the production of interactive products using 3-D for e-business, entertainment and education. Students conduct extensive reviews of interactive presentations, games and instructional media and apply lessons learned to programming 3-D models in interactive environments. Covers advanced techniques to overcome the technological constraints of Web and CD-ROM delivery; interactive 3-D design theory and practice; and methods of project management. Software instruction is in Macromedia Director.

**MM 480 3-D Animation**  
(Prerequisite: MM 380)  
Provides a hands-on introduction to the basics of 3-D animation. Students produce basic 3-D animation and apply aesthetic and usability criteria for appropriate and effective use. Covers technological constraints of 3-D animation; appropriate uses of animated 3-D elements to enhance message delivery; and the management of digital assets for optimal delivery of media. Software instruction is in 3-D Studio Max.

**MM 481 Character Animation**  
(Prerequisite: MM 480)  
Provides a hands-on introduction to the basics of 3-D character animation. Students produce basic 3-D character animation and apply aesthetic and usability criteria for appropriate and effective use. Covers technological constraints of 3-D character animation; appropriate uses of animated 3-D characters to enhance message delivery; and the management of digital assets for optimal delivery of media. Software instruction is in 3-D Studio Max.

**MS 205 Management Science**  
(Prerequisite: MM 205)  
A survey of the fundamentals of management science. Emphasizes the concepts and mathematical techniques most useful in business and finance.

**MSM – Multiple Subject Matter**

**MSM 301 Teaching Elementary Physical Education**  
A content course covering fundamental movements and movement concepts, fitness and movement forms. Also addresses issues of childhood growth and development, motor learning, nutrition, basic principles of movement and strategies of injury prevention.

**MSM 499 Multiple Subject Matter Capstone**  
(Prerequisites: LIT 342 or SCI 335 or HIS 341)  
This capstone course compares and analyzes how knowledge is produced across disciplinary boundaries by integrating the four depth areas of the MSM program: language and literature, history and the social sciences, the sciences and line and performing arts. Students from each Depth area come together in the capstone course to compare and analyze the different approaches, modes of inquiries and methodologies that define the academic disciplines they have studied in depth. Students plan, research and assess an essay that forms one part of a summative assessment project begun in a depth course to include the perspectives of at least two additional disciplinary approaches (for a total of at least four disciplinary approaches). Students use the integrative essay to produce a thematic unit that can be used at a particular K-8 level. The course provides the scaffolding for students to complete the entire summative assessment project for the Multiple Subject Matter program.

**MTH – Mathematics**

**MTH 204 Mathematics for Business and Social Sciences**  
(Prerequisite: Placement Evaluation)  
An introduction to the basic principles and general concepts of elementary calculus with application to business, economics, finance and social sciences. Designed for non-technical majors, this course provides management, social scientists and general decision-makers with techniques to analyze real-world relationships. Graphing calculator is required.

**MTH 209A Structure and Concepts of Mathematical Fundamentals I**  
(Prerequisites: Placement evaluation)  
A study of the real number system and its subsystems, ancient and modern numeration systems, problem-solving and simple number theory.
Course Descriptions

Includes teaching materials and discussion of today's professional organizations. This is a content course, not a methods course.

MTH 209B Structure and Concepts of Mathematical Fundamentals II
(Prerequisite: MTH 209A)
This continuation of MTH 209A includes concepts of measurement, geometry, probability and statistics, elementary synthetic and Euclidean Geometry. Computer programming in BASIC is introduced. Methods are incorporated whenever possible. However, both MTH 209A and MTH 209B are content/concept courses as prescribed by State regulations, not methods courses. Calculator may be required.

MTH 210 Introduction to Probability and Statistics
(Prerequisites: Placement Evaluation)
An introduction to probability theory. Covers simple probability distributions, conditional probability (Bayes Rule), independence, expected value, binomial distributions, the Central Limit Theorem, hypothesis testing, sampling and analysis of variance. Assignments may utilize the MiniTab software, or text-accompanying course-ware STATDISK for DOS PCs. Computers are available at the University's computer lab. Calculator with statistical functions is required.

MTH 214 Modeling of the Environment
(Prerequisites: Placement evaluation)
A course offering a thorough and useful beginning-level understanding of mathematical modeling. Examines diverse applications from the physical, biological, business, social and computer sciences. Teaches how to characterize data, select an appropriate model, solve for model parameters and use the model to predict. Discusses limitations, as well as the capabilities, of models as applied to understanding the real world and its inhabitants. Case studies are chosen to demonstrate useful applications. Graphing calculator is required.

MTH 215 College Algebra and Trigonometry (Accelerated Course)
(Prerequisite: Placement Evaluation)
A continuation course in intermediate algebra. Examines higher degree polynomials, rational functions, trigonometry and matrix algebra needed for more specialized study in mathematics, computer science, engineering and other related fields. Computer usage is encouraged. This course satisfies computer science prerequisites. Graphing calculator is required.

MTH 216A College Algebra and Trigonometry I
(Prerequisite: Placement Evaluation)
The first month of a comprehensive two-month treatment of algebra and trigonometry preliminary to more specialized study in mathematics, computer science, business, or other scientific fields requiring advanced mathematics. The course is a continuation of intermediate algebra and covers higher degree polynomials, rational functions, transformations and the algebra of functions, matrix algebra and basic arithmetic of complex numbers. Graphing calculator is required.

MTH 216B College Algebra and Trigonometry II
(Prerequisite: Placement Evaluation)
The second month of a comprehensive two-month treatment of algebra and trigonometry; this course is a continuation of MTH 216A. Topics include trigonometric functions, analytic trigonometry and application, parametric equations, matrix algebra, sequences and series; and applied problems. Graphing calculator is required.

MTH 220 Calculus I
(Cross listed with CST 208B)
(Prerequisite: MTH 215, or placement evaluation)
An introduction to limits and continuity. Examines differentiation and integration concepts with applications to related rates, curve sketching, engineering optimization problems and business applications. The fundamental theorem of calculus is presented with related techniques for numerical approximation. Looks at the ideas and contributions of Newton, Leibniz, Lagrange, Maria Agnesi and Riemann. Graphing calculator is required.

MTH 221 Calculus II
(Prerequisite: MTH 220)
A discussion of differentiation and integration concepts of the natural logarithm, exponential and inverse trigonometric functions and applications to volumes of revolution, work and arc length. Covers improper integrals and highlights ideas and contributions of Napier, Huygens and Pascal. Graphing calculator is required.

MTH 222 Calculus III
(Prerequisite: MTH 221)
A study of functions in several variables; extrema and Lagrange Multipliers as they apply to today’s optimization problems in engineering, business and ecology; Vector algebra and space geometry; and Kepler’s Laws with application to satellite orbital velocity problems and the rendezvous phenomenon. Also examines integrated integrals and applications, the Jacobian transformation. Highlights contributions by Mary Fairfax Somerville, Sonya Kovalevsky, d’Alembert, Laplace and Caroline Herschel. Graphing calculator is required.

MTH 223 Calculus IV
(Prerequisite: MTH 222)
A study of sequences, Taylor Polynomials, infinite series, tests for convergence and the power series. An overview of ordinary differential equations; the initial-value problem; exactness and integrating factors; and Bernoulli and higher-order equations with forcing functions. Also looks at undetermined coefficients and variation of parameter equations for much of today’s advanced technology in computer systems communications, digital signal processing, neural networks, control systems and information theory. This course studies combinatorics and graph theory. Also analyzes algorithms, logic, circuits, number bases and proofs. Ample applications (graphs, counting problems, Turing machines, codes) examine the ideas of Euler, Boole, Floyd, Warshall, Dijkstra, Church and Turing, Shannon and Bernoulli. Graphing calculator is required.

MTH 410 Computer Technology in the Mathematics Classroom
(Prerequisite: MTH 215 or MTH 216A/B or MTH 209 or placement evaluation)
An overview of the use of computer-based technology in mathematics educational environments. Evaluates graphing calculators and computer software such as LOGO, Geometric Supposer, Rocky’s Boots, LOTUS, function plotters, MATH, Calculus Pad and DERIVE to determine their value in illuminating concepts in the curriculum. Students compare generic or textbook software versus the process of writing programs. Discusses the impact of fast computations and graphics on the choice of topics in the mathematics curriculum. Addresses equity issues related to usage of computers and labs. Requires access to the National University computer lab.

MTH 411 Number Theory
(Prerequisite: MTH 215 or MTH 216A/B or MTH 209 or placement evaluation)
An examination of fundamental concepts of numbers, including divisibility, congruencies, the distribution of primes, Pythagorean triples, the Euclidean Algorithm, the Fundamental Theorem of Arithmetic, Diophantine equations, Goldbach’s conjecture and other unsolved problems of number theory. Emphasizes applications (graphs, counting problems, Turing machines) for much of today’s advanced technology in computer systems communications, digital signal processing, neural networks, control systems and information theory. This course studies combinatorics and graph theory. Also analyzes algorithms, logic, circuits, number bases and proofs. Ample applications (graphs, counting problems, Turing machines, codes) examine the ideas of Euler, Boole, Floyd, Warshall, Dijkstra, Church and Turing, Shannon and Bernoulli. Graphing calculator is required.

MTH 412 History of Mathematics
(Prerequisites: MTH 215, MTH 216A/B, or MTH 209)
An examination of the history of mathematics. Throughout history, mathematics has changed the way people view the world. This course examines currents in the development of mathematics throughout ancient Egypt, Babylon, China and the Middle East. It studies math’s influence on society throughout the major events of Europe, contemporary developments and some projections into the future, including the women and men who played key roles in evolution. Readings and problems are taken from original as well as secondary sources.

MTH 416 Algebraic Structures
(Prerequisite: MTH 325)
A look at groups, rings and fields, as well as applications of these systems. Discusses equivalence relations, Lagrange’s Theorem, homomorphisms, isomorphisms, Cayley’s Theorem and quotients. Also examines error correcting codes and issues of cryptography. Graphing calculator may be required.

MTH 417 Foundations of Geometry
(Prerequisites: MTH 216B and MTH 325)
A discussion of fundamental ideas and processes
common to Euclidean and non-Euclidean Geometries, including projective, affine and metric geometry. Examines the interplay between inductive and deductive reasoning and formal and informal proof. Addresses uses in areas such as science (transformations, scaling), art (Escher-type tessellations, projections), architecture (three-dimensional figures) and computer science (fractals, computer-aided design).

**Course Descriptions**

**MTH 418 Statistical Analysis**
*(Prerequisites: MTH 210 and MTH 220)*
An examination of statistical applications to business, computer science, psychology, education, social sciences and mathematics. Covers fundamental concepts of probability distributions, mathematical models relating independent and dependent random variables, hypothesis testing and experimental design. Study includes fundamental analysis of variance, various distributions and methods of regression, analysis and scaling. Popular software such as SPSS or Minitab may illustrate examples and concrete problems. Graphing calculator is required.

**MTH 432 Advanced Calculus**
*(Prerequisite: MTH 223)*
A look at sets, functions and the real numbers as an ordered set. Topics include the Completeness Axiom, cardinality and Cantor's Theorem, sequences, subsequences, monotonicity and boundedness; the Bolzano-Weierstrass Theorem, LimSup and LimInf; topology of R1 and R2; open sets and limit points. Also discusses compactness and the Heine-Borel Theorem; the properties of continuous functions, uniform continuity, the mean-value Theorem, inverse functions and differentiability; the Riemann integral and the Lebesgue Measure.

**MTH 433 Differential Equations**
*(Prerequisite: MTH 223)*
An analysis of the existence and uniqueness of solutions of ordinary differential equations with initial conditions. Examines linear systems of ordinary differential equations and the geometry of solutions of higher-order linear differential equations. Discusses applications to electro-mechanical systems and the design of control systems. Graphing calculator is required.

**MTH 435 Linear Algebra**
*(Prerequisites: MTH 325 and MTH 220)*
An examination of systems of linear equations and matrices, elementary vector-space concepts and geometric interpretations. Discusses finite dimensional vector spaces, linear functions and their matrix representations, determinants, similarity of matrices, inner product, rank, eigenvalues and eigenvectors, canonical form and Gram-Schmidt. Computer software demonstrates computational techniques with larger matrices. Graphing calculator or appropriate software may be required.

**MTH 438 Applied Mathematical Modeling**
*(Prerequisites: MTH 325 and MTH 435)*
A capstone course for the B.S. in Mathematics, this course culminates the mathematics major studies and should be taken at or near the end of the program. Addresses important problem areas such as political science, ecology, psychology, sociology, economics, anthropology, business and institution al planning using mathematical techniques from areas such as calculus, geometry, probability and statistics, linear and matrix algebra and linear programming. Discusses principles and methods of constructing, analyzing, interpreting, evaluating and refining models. Compares mathematical models, including analytic and simulation, discrete and continuous and deterministic and stochastic. Graphing calculator is required.

**MTH 440 Numerical Analysis**
*(Prerequisite: MTH 220)*
An introduction to numerical computation employed so widely in industry and research. Discusses errors in numerical computation, truncation and discretization and machine storage restrictions. Examines function approximation, roots of nonlinear equations and systems of linear equations, algebraic eigenvalue problems, polynomial interpolation and cubic spline interpolations, quadratures, numerical differentiation, initial and boundary-value problems. May utilize programmed algorithms. Graphing calculator is required.

**MTH 441 Abstract Algebra with Applications**
*(Prerequisite: MTH 416)*
This course continues and advances the work done in MTH 416 Algebraic Structures, discussing selected fundamental algebraic structures and their applications to computations. The main concepts of Group Theory, Rings, Fields and vector spaces will be applied. Finite permutation groups (Cauchy’s Theorem) and their applications in science and arts are studied.

**MTH 442 Functions of Complex Variables and its Applications**
*(Prerequisite: MTH 416)*
This course is a study of functions of complex variables and their applications to other mathematics branches, sciences, and engineering. The following topics will be examined: the complex plane, analytic functions, integration and Cauchy’s Theorem, sequences and series, residue calculus, Fourier and Laplace transforms, and applications.

**MTH 450A Mathematics Project Course I**
*(Prerequisites: Completion of Mathematics Core for B.S. in Mathematics and interview with Department Chair)*
The project courses are not independent study. They are directed student team projects or internships in mathematics. Requires utilization of previous acquired skills to complete the project. Students can select project topics from industry, government, business, education, or research.

**MTH 460 Problem Solving Strategies**
*(Prerequisites: MTH 416 and MTH 417)*
Students will learn about the science and art of problem solving. The course will develop student’s abilities to solve mathematics problems. The aim in the course is not to impart any specific body of knowledge, but rather to foster the students’ understanding of the interconnectedness of mathematics in a variety of contexts, including China, Japan, India, Bali, Ethiopia, Iran, the Arabic Near East and South America. Broadens students’ cultural understanding of music.

**NSG 301 Practicing the Role of the Professional Nurse**
An overview of the practicing role of the professional nurse. Focuses on assuming responsibility for the nursing care of complex clients in an acute care setting. Includes a required clinical practicum.
Course Descriptions

NSG 310 Professional Nursing Values
An introduction to fundamental values as a foundation for professional nursing practice. This course provides registered nurses with an understanding of key components necessary for demonstration of professional value-based behaviors. The concept of caring will be examined through the values of altruism, autonomy, human dignity, integrity and social justice.

NSG 311 Health Assessment
Holistic health assessment as the basis for nursing intervention and practice. Interviewing skills, health history, physical examination, cultural variations and laboratory and diagnostic procedures throughout the lifespan of clients.

NSG 322 Introduction to Biomedical Statistics
An introduction to statistical procedures commonly used in the analysis of nursing research data. Teaches the utilization of computers and statistical software in the analysis of data.

NSG 400 Theory Based Nursing: Introduction to Transcultural Nursing
A study of Leininger’s theory of culture care diversity and universality. Focuses on strategies for assessing and intervening with sensitivity to differences in patients from many cultures. Develops a theoretical framework for practice that is sensitive to culturally diverse individuals.

NSG 401 Model Based Practice: Exploring Conceptual Frameworks
A survey comparing and contrasting nursing conceptual frameworks. Explores different worldviews inherent in paradigms and the impact on nursing practice. Includes simulated application of selected frameworks to nursing practice.

NSG 402 Knowledge-Based Practice: Linking Scholarship to Professional Practice
An application of research in clinical practice. Knowledge to the practice of professional nursing. Emphasizes the link between knowledge development, evolving nursing care standards and regulation of nursing practice. Develops clinical standards, care pathways and guidelines.

NSG 410 Nursing in the Community: Population-Focused Practice
(Prerequisites: NSG 400, NSG 401, NSG 402 and NSG 411)
A study of community health nursing concepts as they apply to the health of individuals. Explores the nursing care of individuals in the community using primary, secondary and tertiary models of therapeutic intervention. This course includes a required clinical practicum.

NSG 411 Nursing in the Community: Frameworks for Practice
(Prerequisites: NSG 400, NSG 401, NSG 402 and NSG 412)
A study of providing nursing care to families in the community. Explores nursing care using primary, secondary and tertiary models of intervention. This course includes a required clinical practicum.

NSG 412 Nursing in the Community: Health Care Delivery
(Prerequisites: NSG 400, NSG 401 and NSG 402)
A study of community health nursing concepts as they apply to the health of groups and the community at large. Explores nursing care using primary, secondary and tertiary models of intervention. This course includes a required clinical practicum.

NSG 420 Introduction to Quantitative Research
(Prerequisites: NSG 400, NSG 401, NSG 402 and MTH 210 or NSG 322)
A study of quantitative research in nursing. Evaluates current research using descriptive, correlational and experimental designs. Critiques pertinent research for use in nursing practice.

NSG 421 Introduction to Qualitative Research
(Prerequisites: NSG 400, NSG 401, NSG 402 and MTH 210 or NSG 322)
A study of qualitative research in nursing. Evaluates current research using selected qualitative methods. Critiques pertinent research for use in nursing practice.

NSG 429 Health Economics
An economic approach to the study of health care services provision. Illustrates the usefulness of economic and strategic analysis to the study of public policy issues in health care.

NSG 430 Case Management and Patient Care Management
(Prerequisites: NSG 400, NSG 401 and NSG 402)
An exploration of the changes in patterns of nursing care delivery and management of delivery systems. Emphasizes leadership and skills required for a leader. Examines management decision-making using decision making theory. This course includes a required clinical practicum.

NSG 431 Health Service Systems Management
(Prerequisites: NSG 400, NSG 401, NSG 402 and NSG 430)
An exploration of decision-making, hospital information systems and the organizational climate of a selected health-care delivery system. Helps develop a broad understanding of the complexity of health care management. This course includes a required clinical practicum.

NSG 440 Issues in Professional Nursing
(Prerequisites: NSG 400, NSG 401 and NSG 402)
A capstone course that explores the historical roots and current catalysts of complex issues of nursing education, practice and scholarship. Also analyzes multiple interpretations of selected issues and strategies for resolving issues.

OD 410 Organizational Development
(Prerequisites: HRM 409B)
A practical study of graphical methods and statistical procedures, affirmative action, employee motivation and organizational development.

OD 420 Financial Management and Grant Administration
An exploration of current governmental fiscal management techniques and issues. Examines various types of financial and technical assistance to quasi-governmental and non-profit management organizations.

PA 620 Foundations of Public Administration
A general survey course covering the role of the public sector manager in American society today. Studies current issues and leading concepts in the field of non-profit management.

PA 622 Seminar in Urban Affairs
An examination of influences affecting decisions in the urban political arena. Covers segments of the community that impact the decision-making process (i.e., employee groups, labor influences, community groups, media and other special interests). Examines the relationship between intergovernmental agencies.

PA 625 Public Personnel Policy
An examination of the important aspects of personnel management in government, including civil service procedures, affirmative action, employee motivation and organizational development.

PA 627 Quantitative Methods in Public Administration
A practical study of graphical methods and statistical procedures specifically aimed at presenting, interpreting and solving problems related to public administration. (This course cannot be substituted where MS 601 is required.)

PA 630 Government Community Relations
An exploration of how to communicate with citizens in a positive and helpful fashion. Discusses how to interact with community groups and the press and how to promote public understanding of and support for, government activities.

PA 631 Urban Planning and Redevelopment
An examination of historical development of urban planning practices and concepts, general plans and their elements in the urban community. Also discusses the use of technology in planning. This is the capstone course for the Public Administration Program; students must complete a minimum of five Public Administration courses prior to taking this course.

PA 632 Financial Management and Grant Administration
An exploration of current governmental fiscal management techniques and issues. Examines various types of financial and technical assistance to quasi-governmental and non-profit management organizations.

PA 633 Media Relations
A study of the process for developing a strategy and designing a plan of action for working with the media. Discusses approaches for generating publicity, enhancing fundraising, building membership, developing relationships, changing public policy and handling crises. Focuses on the needs of society and strategic communications plans that promote social and public policy change.

PA 640 Public Finance
An overview of the fundamental microeconomic analysis of policy issues in public finance, emphasizing taxation. Major topics include public good and externalities, tax incidence and equity and fiscal federalism.
PA 641  
Local Government Budgeting  
A comprehensive, straightforward look at local government budgeting. Topics deal with include the advantages and disadvantages of various approaches to revenue projection, the collection and review of departmental proposals, the development of capital budgeting policy and other budgeting tasks. Also considered are budget implementation, accounting and financial reporting. A variety of methods for maintaining budgetary balance, preventing overspending and dealing with contingencies are presented and discussed.

PA 642  
Seminar in Public-Private Financing Partnerships  
An examination of financing partnerships between private businesses and public agencies such as school districts, college and university institutions and city and state governments. The course focuses on the design and construction of needed public facilities and the sponsoring of commercial redevelopment projects. Case studies provide detailed coverage of the complex process involving in taking a real estate project from conceptualization through construction.

PA 643  
Bargaining and Negotiation in the Public Sector  
An analysis of bargaining and negotiation principles and practices in the public sector. The course focuses on the financial issues of contract negotiations and labor relations. Case studies, simulation exercises, research projects and group discussions complement the presentation of theory and practical experience in developing effective negotiation skills.

PED - School Psychology

PED 678  
Practicum in School Psychology  
(Prerequisite: Enrollment in the PED sequence)  
Supervised field experience in a variety of school settings. Students complete 450 hours of pre-fieldwork experience. Note: Grading is on a satisfactory/unsatisfactory basis.

PED 679A  
School Psychology Fieldwork - Community Setting  
(Pre-requisite: Successful completion of PED 678A)  
Fieldwork provides supervised experience applying the skills learned in the program to a variety of school settings. Students demonstrate knowledge and skill in areas of individual assessment, individual intervention, individual program evaluation, consultation, group assessment, supervision and working with community agencies. They also demonstrate skill in applying psychological theory, legal and ethical principles and educational and psychological research. Note: Grading is on a satisfactory/unsatisfactory basis.

PED 680  
Problems and Issues in School Psychology  
An exploration of school psychology and the role of school psychologists in assessing students for special education and identifying at-risk pupils.

PED 681  
Educational and Psychological Assessment of the Child  
(Prerequisites: CED 604, CED 613 plus seven additional CED courses; concurrent enrollment in PED 680)  
This is the first of three courses. An introduction to the individual assessment of students who are either being considered for special education or are otherwise at-risk. Examines cultural and linguistic issues. In-depth introduction to cognitive assessment.

PED 682  
Advanced Individual Assessment  
(Prerequisite: PED 681 with a B or better)  
A continuation of the assessment sequence with a focus on administering a full assessment battery, diagnosing handicapping conditions and developing a comprehensive report that integrates information from a variety of sources.

PED 683  
Program Development and Evaluation  
A study of factors leading to effective program evaluation. Includes design, implementation, analysis, utilization of evaluation results and problems inherent in each. Program development, curriculum design and project management.

PED 684A  
Eligibility Assessment and Low Incidence Populations  
(Prerequisite: PED 682 with a B or better)  
A continuation of PED 682 that emphasizes eligibility for special education and assessment of low-incidence children with a variety of mixed handicaps. Discusses diagnosis of handicapping conditions, recommendations for remedial techniques, IEP development and use of interpreters in assessment.

PED 684B  
Alternative Assessment Seminar  
(Prerequisite PED 682 with a B or better)  

PED 685  
Fieldwork Seminar in School Psychology  
(3 quarter units)  
(Prerequisite: PED 684B)  
A seminar taken concurrently with the PED fieldwork. In this seminar, students interact with the professor and other practicum students regarding situations that have arisen. They also integrate learning from their previous courses, self-assess and improve professional knowledge and improve their written and oral communication. Includes exposure to trends that affect the work of school psychologists and career advisement. Grading is on a satisfactory/unsatisfactory basis.

PED 687A  
School Psychology Fieldwork Elementary I  

PED 687B  
School Psychology Fieldwork Elementary II  

PED 688A  
School Psychology Fieldwork Middle I  

PED 688B  
School Psychology Fieldwork Middle II  

PED 689A  
School Psychology Fieldwork High I  

PED 689B  
School Psychology Fieldwork High II  

PHL - Philosophy

PHL 100  
Introduction to Philosophy  
(Prerequisites: ENG 100/101)  
A study of the variety of ways of thinking about such fundamental issues as knowledge and belief, human nature, the nature of reality, the existence of supernatural being(s) and the relationship between self, mind and the body. Develops philosophical thinking skills and awareness of world philosophies.

PHL 238  
Critical Thinking in Everyday Life  
(Prerequisites: ENG 100/101)  
An introduction to the skills needed to rationally and critically evaluate common forms of illogical reasoning, verbal sleights of hand and the use of language to distort and confuse. Emphasizes critical thinking in real-world applications involving advertising, politics, claims of the paranormal and controversial issues like abortion. Also covers the basics of deductive and inductive reasoning.

PHL 320  
Comparative Religion +  
(Prerequisites: ENG 100/101)  
A survey of major world religions in cross-cultural and historical perspective. Explores several traditions, including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Islam and Christianity. Also discusses the distinction between church, sect and cult; the experience of conversion; religious rituals, ceremonies and rites of passage; and the construction of legitimacy for contemporary new religions. May involve work in oral history.

PHL 336  
Philosophy of Science  
(Prerequisites: ENG 100/101)  
A survey of major theories of science. Considers the nature of scientific knowledge, the roots of science in our everyday cognition and behavior, the relationship of theory to experimentation, the social implications of science, the relation of physical to social science and the relation of science to technology.

PHL 339  
Study of a Major Philosopher  
(Prerequisites: ENG 100/101)  
An in-depth analysis of the writings of a major figure in the history of philosophical thought, with particular emphasis to be determined by the instructor in the context of the specific thinker chosen.

PHL 375  
Environmental Ethics  
(Prerequisite: ENG 100/101)  
An exploration of the justification for moral and legal concerns with natural objects (including non-human animals). Examines humanitarian, ecocentric and utilitarian perspectives. Issues include animal rights, animal experimentation, factory farming, species extinction, habitat loss, pollution, conservation, industrialization and population control as well as Western cultural assumptions of worth and personhood.

PHL 437  
Ethics  
(Prerequisites: ENG 100/101)  
An examination of theories of value, ideological differences and conflicts and practical applications to clarify ethical differences. Emphasizes the dilemmas of personal and professional responsibility within a real-world context of business and workplace circumstances.

PS 201  
American Government and Politics  
(Prerequisite: ENG 100/101)  
A critical introduction to the structure of American government. Topics include classical and modern democratic theories, constitutionalism and federalism; the political process, including the mass media, voting behavior and political parties and interest groups; the institutions of government; the courts, civil liberties and civil rights; and public policy. (Includes study of the Constitution)
PSY 426 History of Psychology  
(Prerequisites: ENG 100/101 and PSY 100)  
Contemporary psychology derives from two main sources: (1) the rise of the scientific method and worldview in Western Europe during the modern era and (2) perennial issues in philosophy throughout its entire history in the West. This course reviews influences from both sources on the development of psychology, especially in America.

PSY 427 Biological Psychology  
(Prerequisites: ENG 100/101 and PSY 100)  
A study of the role of biological structures and processes in normal and pathological psychological functioning. Includes memory, mood, emotions, inhibitory and impulse control, sexuality, intellectual development, thought disorder and social behavior.

PSY 428 Developmental Psychology  
(Prerequisites: ENG 100/101 and PSY 100)  
An examination of the development of personality, including personal identity, cognition, language, social skills, relational capacities, gender and role learning and socialization for the entire life span.

PSY 429 Introduction to Personality Theory  
(Prerequisites: ENG 100/101 and PSY 100)  
The study of psychological characteristics of the individual that endure in stable form for substantial periods of time. Examines influential theories of personality and supporting research.

PSY 430 Introduction to Psychopathology  
(Prerequisites: ENG 100/101 and PSY 100)  
The study of psychological characteristics of the individual that endure in stable form for substantial periods of time. Examines influential theories of personality and supporting research.

PSY 431 Theories and Techniques of Psychological Testing  
(Prerequisites: ENG 100/101 and PSY 100)  
An introduction to theories and principles of psychological testing and measurement and to a variety of standardized tests of intelligence, personality, achievement, interest, neuropsychology and other areas. Emphasizes the principles by which tests are constructed and validated. Also examines controversies regarding the valid, appropriate and fair use of psychological tests.

PSY 432 Social Psychology  
(Prerequisites: ENG 100/101 and PSY 100)  
A study of the responsiveness of individuals to various sources and forms of social influence. Major areas of study include persuasion, conformity, obedience, prejudice, attitude formation and change, social behavior, altruism, aggression and the influence of the mass media. Emphasizes social circumstances rather than variations in personal characteristics, as in personality theory.

PSY 433 Cognitive Psychology  
(Prerequisites: ENG 100/101 and PSY 100)  
The study of psychological functioning in the area of mental operations, largely uninfluenced by individual differences in personality or motivation. This encompasses the areas of attention, pattern recognition and other perceptual achievements, memory, problem solving, categorization and concept formation, language acquisition and use, textual interpretation and decision making.

PSY 434 Psychological Research: Philosophy, Methods, Ethics  
(Prerequisites: PSY 435)  
A survey of core issues involved in scientific psychological research. Includes the study of the nature of explanation in psychology, the role of theory in research, the connection between research findings and theory, the distinction between experimental and other forms of research, the design of experiments, threats to the validity of research findings, operationalizing psychological concepts in a manner that yields quantitative data and ethical considerations in terms of confidentiality, informed consent and the possibility of doing harm to subjects.

PSY 435 Analysis of Data in Psychological Research  
(Prerequisites: ENG 100/101, PSY 100 and MTH 210)  
A study of how conclusions are made on the basis of submitting research data to statistical tests. The general area is called inferential or inductive statistics. Covers methods for analyzing parametric and non-parametric data, single-group and multiple-group sources of data and data derived from one source of information and multiple sources of information.

PSY 436 Computer Applications in Psychology  
(Prerequisites: ILR 260 and PSY 435)  
A survey of the uses of computers in psychology, including the application of computers in psychological research and the analysis of statistical packages for the social sciences. Also considers computer-aided instruction. Lecture and laboratory format.

PSY 437 Theories of Psychotherapy  
(Prerequisites: ENG 100/101 and PSY 100)  
A presentation of clinical theories of treatment that correspond to theories of psychopathology, personality and development already encountered in courses under such titles. Topics include specific treatment approaches, the nature of the therapeutic relationship and how it effects change and therapeutic interventions.

PSY 460 Introduction to Addictive Disorders  
(Prerequisites: ENG 100/101 and PSY 100)  
An overview of the nature of addictive disorders, including the various theories regarding etiology, development and psychopathology of such disorders. Also covers the etiology, diagnosis, assessment and treatment of compulsive gambling and nicotine addiction.

PSY 461 Group Counseling with Addictive Disorders  
(Prerequisites: PSY 460)  
An examination of the theoretical framework for facilitating group counseling with clients with addictive disorders. Studies multicultural differences related to working with clients in a group context. Each student is given the opportunity to co-facilitate a group in class at least once during the course.

PSY 462 Etiology and Treatment of Chemical Dependency  
(Prerequisites: PSY 460 and PSY 461)  

PSY 463 Etiology and Treatment of Eating Disorders  
(Prerequisites: PSY 460 and PSY 461)  
Course Descriptions

PSY 464
Etiology and Treatment of Sexual Addiction
(Prerequisites: PSY 460 and PSY 461)

PSY 465
Counseling the Addictive Family System
(Prerequisites: PSY 460 and PSY 461)
An overview of family systems theories and an in-depth understanding of how to apply those theories to the addictive family system. Discusses cross-cultural.

PSY 480
Senior Project
(Two-month, 4.5-unit course)
(Prerequisite: Completion of all other core courses)
Development of a major cumulative paper integrating what students have learned in the program with an applied area of student interest. Covers empirical or theoretical study of specific topics in psychology with an emphasis on independent and creative activity. Students meet in seminar format to present work in progress for discussion. Students must earn a grade of "C" or better or must repeat the course.

PSY 481
Selected Topics in Psychology
(Prerequisites: Completion of at least 13.5 quarter units of core courses)
An examination of readings and discussions of one of a variety of psychological topics, including gender issues, aging, sexuality, psychoanalytic theory, learning theory, sensation and perception, memory, Freudian psychology, Piagetian psychology, or other issues of current interest to faculty and students.

PSY 490
Guided Study
(1.5-4.5 quarter units)
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

PSY 491
Guided Study for Honors Students
(1.5-4.5 quarter units)
(Prerequisites: Completion of the core with a GPA of 3.75 or higher and approval by the Department) Individual directed study of a psychological problem. Cumulants in students writing a substantive honors paper under the supervision of a faculty member. Grading is by "H" (for Honors, "B" or better work), "S" (for marginal, "C" level work), or "U" (Unsatisfactory, "D" or below).

PSY 618
Principles of Psychotherapy I: Assessment and Interventions
An introduction to the fundamentals of psychotherapy practice, including assessment, theory, treatment planning and intervention. Covers concepts of pathology, therapeutic growth, the role of the therapist, defense, empathy, transference, counter transference and culture.

PSY 619
Research: Paradigms and Critiques
(3 quarter units)
An overview of how to read and critically analyze psychological research. Discusses both modern and post-modern paradigms. Techniques of behavioral writing will also be discussed including process notes, treatment goals and objectives and other forms of clinical writing.

PSY 623
Perspective on Psychopathology
Explores the realm of mental illness from the perspectives of etiology, diagnosis, classification and treatment. Covers relevant contextual issues often considered to be related to etiology and treatment. These include neurobiology, culture, family and development. Also covers post-modern considerations regarding pathology and treatment.

PSY 624
Assessment Techniques for Marriage and Family Therapists
Acquaints students with the various information-gathering techniques used in clinical practice for the purposes of diagnosis and treatment planning. Emphasizes building conceptual and practical bridges between initial presenting symptoms, diagnosis and treatment planning.

PSY 626
Human Sexuality in Psychotherapy
An exploration of human anatomy, physiology, sexual response cycle and the current theories and techniques used to treat sexual dysfunction. Provides students an opportunity to develop skills with these techniques and confront personal biases. Covers issues such as lifestyle, gender choice, gender roles, stereotyping, religion, contraception, HIV, AIDS and physical challenges.

PSY 627
Legal and Ethical Issues in Marriage/Family Therapy
An examination of the professional laws and ethics pertaining to the practice psychotherapy and the content of these legal and ethical codes, the meaning of these tenets and the underlying principles involved.

PSY 628
Principles of Psychotherapy III: Group Approaches
A comprehensive study of the major approaches, techniques and interventions used in group psychotherapy. Also emphasizes dynamics of group process including the types, stages and formation of groups.

PSY 629A
Developmental Contexts in Psychotherapy: Adulthood and Aging
An opportunity to examine major topics in adult development and aging as they relate to the practice of psychotherapy. Includes developmental challenges and tasks unique to adult life, theories which assist in understanding the adult experience, issues related to work and career and the impact aging has on individuals and society.

PSY 631A
Principles of Psychotherapy IV: Integration and Application
A focus on integrating and applying the full range of theoretical models used in individual, couples and family psychotherapy. Students gain practical experience with both process and content issues through in-class role playing and demonstrations and receive both instructor and peer feedback.

PSY 631B
Practicum for MFT Trainees
A two-part field practicum in which students work as MFT trainees under the supervision of a licensed therapist. Students also participate in an academic seminar at the University. Students select an approved practicum site and accumulate 200 hours of psychotherapy experience that includes 150 hours of face-to-face work with clients during a six-month period. Regular course work continues during this period. The academic seminar meets two hours per week and runs concurrently with on-site work. Seminar work focuses on professional and training issues, including process issues, case conceptualization, oral, written and videotaped presentations and integration of relevant research. On-site psychotherapy and supervision hours can be used as partial fulfillment of MFT licensing hours. Grading is on a satisfactory/unsatisfactory basis. This six-month seminar may meet in the late afternoon outside of regular class hours.

PSY 632
Couples/Family Therapy A
Part one of a two-part sequence designed to provide students with an in-depth knowledge of the theories, techniques and research findings fundamental for the practice of psychotherapy with couples and families. Emphasizes developmental, systemic, cultural and post-modern theories through experiential activities such as role-playing.

PSY 632B
Couples/Family Therapy B
Part two of a two-part sequence. Facilitates an integration and application of theoretical concepts and techniques during the previous course. Emphasizes experiential exercises such as role-playing, simulation of couples and families, videotaping, skill-building and demonstration.

PSY 635
Developmental Contexts in Psychotherapy: Childhood and Adolescence
A seminar focusing on the application of developmental theories and research to the clinical practice of assessment, diagnosis and treatment of children and adolescents. Considers all areas of the developmental process will be considered in addition to issues surrounding diversity, gender and other relevant contexts. Addresses differences between normal developmental transitions, adjustment reactions to life events and/or trauma and deviations in development.

PSY 636
Principle of Psychotherapy II: Child and Adolescent
An examination of theories, techniques and empirical findings essential to the practice of children and adolescents. Emphasizes the developmental, cultural and family parameters necessary to conduct successful treatment. Students gain experience with a variety of diagnostic and treatment techniques tailored to the particular age and developmental levels of children and adolescents through in-class experiential activities.

PSY 637
Principles of Psychotherapy V: Cultural Competencies
An exploration the role of culture in psychotherapy. Emphasizes the development of a culture-centered approach to psychotherapy by integrating multicultural awareness, knowledge and skills into assessment, diagnosis and treatment.

PSY 642
Relational Violence
An examination of child abuse, battering partners and abuse of the elderly as issues rooted in relationships of one form or another. This course covers classical, modern and post-modern identification, assessment and treatment of relational violence as well as preventive intervention. Addresses relevant cultural and gender issues.

PSY 652
Psychopharmacology
A study of the effects, patterns of use and delivery of psychopharmacological products. Evaluates and lists the primary medications in use today; critiques pertinent research in psychiatric intervention as it relates to psychotherapy; analyzes selected issues in resolving possible conflict in treatment goals between psychotherapy and psychopharmacology. Students learn to recognize signs and symptoms that might be amenable to medication. Problems such as Schizophrenic disorders, mood disorders, organic mental syndromes, substance use disorders, sexual issues, eating disorders and emergencies are discussed. The course curriculum alternates areas such as when to refer a patient to a physician, basics on how medications work, who would be involved in the referral, where to look for a physician co-therapist and what outcomes can be expected.
Course Descriptions

PSY 690 Guided Study (1.5-4.5 quarter units) Individual study under direction of instructor. Requires prior approval of appropriate academic department.

QMT - Quantitative Business Methods

QMT 601 Quantitative Business Methods An examination of the increasing complexity of business problem-solving confronting today's managers, this course covers the role statistics and forecasting play in the business decision-making process, as well as the managerial role involved in planning and conducting business research. Within the context of this course, students propose to study a situation that exists within an organizational setting and identify a faculty research advisor with knowledge in the focus area.

SCI - Natural Sciences

SCI 100 Survey of Bioscience A survey course of the basic principles of the life sciences. Examines cellular, organismal, population and community biology based on the unifying concept of evolution.

SCI 100A Survey of Bioscience Laboratory (1.5 quarter units) (Prerequisite: SCI 100) Study of the unifying principles of life with emphasis placed on the following topics: molecular biology of the cell and cellular processes, including energy metabolism, membrane transport and cell division; classical genetics; population genetics; and the mechanism of evolution and the evolutionary basis of species classification. This laboratory course will complement the student's knowledge of biology with demonstrations and experiments. Contact hours for this laboratory course (45) are based on a 3:1 ratio, i.e. 3 lab hours = 1 lecture hour equivalent.

SCI 101 General Chemistry Fundamentals of inorganic and organic chemistry, including bonding and basic types of reactions. An introduction to nuclear, biological and environmental chemistry. Basic principles and calculations of chemistry with emphasis in the areas of atomic structure, molecular structure and properties, equilibrium, thermodynamics, oxidation-reduction and kinetics.

SCI 101A General Chemistry Laboratory (1.5 quarter units) (Prerequisite: SCI 101) This laboratory course will complement the student's knowledge of chemistry with demonstrations and experiments. Contact hours for this laboratory course (45) are based on a 3:1 ratio, i.e. 3 lab hours = 1 lecture hour equivalent.

SCI 102 Survey of Physical Science An introduction to the basic principles and general concepts of the physical sciences. Develops selected topics from chemistry and physics. A general education course for non-technical majors.

SCI 103 Fundamentals of Geology Introduction to the major geological processes which create and transform materials and landforms throughout the planet. Geotectonic processes, geomorphology, unifying themes such as plate tectonics, sea form spreading and athensphere convection cells; and degradation-aggradation processes.

SCI 103A Fundamentals of Geology Laboratory (1.5 quarter units) (Prerequisite: SCI 103) This laboratory course will complement the student's knowledge of geology with demonstrations and experiments. Contact hours for this laboratory course (45) are based on a 3:1 ratio, i.e. 3 lab hours = 1 lecture hour equivalent.

SCI 104 General Physics (Prerequisite: Satisfactory completion of high school algebra or equivalent) Non-calculus based general physics course for earth and life science majors. Study of force, laws of motion, heat, fluid mechanics, electricity, magnetism, light (optics) and nuclear physics.

SCI 104A General Physics Laboratory (1.5 quarter units) (Prerequisite: Satisfactory completion of high school algebra or equivalent and SCI 104) Non-calculus based general physics course for earth and life science majors. Laboratory experiments/exercises, including data analysis on topics, including but not limited to: electricity, magnetism, light (optics) and nuclear physics.

SCI 219 Plants and People A study of food, fiber, forage, fuel and drug crops of major economic significance. Emphasizes ethnobotany, including basic principles of botany, geographic distribution, commercial value and marketable products.

SCI 227 Human Biology A study of the anatomy and functioning of the human body. Considers the circulatory, digestive, reproductive, excretory, respiratory, musculoskeletal and nervous systems. Focuses on growth, development and the maintenance of good health.

SCI 300 Geography: Mapping the World A course emphasizing both human cultural and physical geography. Uses modern and traditional technologies of mapping the earth to help students understand the intimate interconnectedness of the physical, biological and human realms on earth. Explains the relationships between the surface features of the earth, climate, plants, animals and human cultures (politics, languages, economic opportunities, urban vs. rural concerns, migrations and other social factors). Focuses on students' immediacy in interacting with the real (measurable and mapable) world in which they live. Includes a field/lab component.

SCI 301 Earth and Planetary Sciences A study of the astronomical, geological and oceanographic sciences. Emphasizes the physical structures and processes that have formed (and are continuing to shape) the stars, planets and other objects of our solar system and the universe.

SCI 322 Oceanography An examination of the interactions between oceanographic, geological and astronomical processes on the physical and living components of the world's oceans. The course explores the interactions between the ocean and the atmosphere and how these interactions affect currents, weather and biological activity. The course curriculum also explores how marine biological organisms and biological processes modify the oceanic and global environment.

SCI 330 Ecology A study of the relationship of plants and animals to their environment and to one another. Emphasizes populations, the population-community interface and community structure and interactions within the ecosystem.

SCI 335 Environmental Science A study of man's relationship to the environment and the effects on it. Examines plant and animal community structure, renewable and nonrenewable resources and environmental degradation with emphasis on what is needed for a sustainable society.

SCI 400 History of Science (Prerequisite: One 4.5 quarter unit course from the natural sciences) A study of the history of science throughout all human cultures. Emphasizes the mutual interaction between science and society, especially in modern times.

SCI 405 Cell and Molecular Biology Introduction to basic biological principles including the chemical basis of life, cell structure and function, energy transformations, cell division, genetics and the origin of life.

SCI 405A Cell and Molecular Biology Laboratory (1.5 quarter units) This laboratory course will complement the student’s knowledge of cell and molecular biology with demonstrations and experiments. Contact hours for this laboratory course (45) are based on a 3:1 ratio, i.e. 3 lab hours = 1 lecture hour equivalent.

SCI 408 Introduction to Genetics and Heredity Principles of heredity, with emphasis on the relationship of genetics to the health, welfare, behavior and society of humankind. Application of genetics to the origin, adaptations and evolution of species.

SCI 411 + Biodiversity A survey of the form and function of diverse life forms (past and present) on earth. Describes representative members of the five phyla within the framework of evolutionary ecology and conservation. May also discuss current issues in habitat loss, extinctions, preservation of tropical rain forests and coral reefs, resource values for humans and restoration ecology.


SCI 412A General Zoology Laboratory (1.5 quarter units) (Prerequisite: SCI 412) This laboratory course will complement the student's knowledge of zoology with demonstrations and experiments. Contact hours for this laboratory course (45) are based on a 3:1 ratio, i.e. 3 lab hours = 1 lecture hour equivalent.

SCI 420 Animal Behavior A descriptive introduction to the field of animal behavior with intentional focus on the vertebrates. Will emphasize broad based behavioral concepts that integrate the work of biologists, psychologists, anthropologists and social scientists.
Course Descriptions

SC 450
Natural History of California: A Field Course
A unique field experience for those students interested in a more comprehensive introduction to the scientific study of the Southwestern ecosystems of the U.S. (or the western regions of Mexico). This course consists of six field trips, with sites specifically selected for each academic center within the University. Student-developed observations and experiments are conducted in the field. May require camping and field equipment.

SCI 480
Studies in Field Biology
A field-based study in paleontology, terrestrial or freshwater ecology, marine biology, deforestation, habitat protection, endangered species, environmental education, or other aspects of field biology under the individual direction of the faculty. Topics and sites are specifically designed for teachers in career development programs or for those students traveling throughout different ecosystems. Flexibility in units and subject matter are at the essence of this course. Units can be taken separately or cumulatively (this course can be repeated depending upon the needs of individual students).

SE 410
Introduction to Software Engineering and Professional Ethics
This is an introductory course for students enrolled in or considering the Bachelor of Science in Software Engineering. Students are introduced to computer hardware, software and ethics. A general knowledge of software engineering and computer programming is introduced.

SE 420
Introduction to Software Processes and Management
A broad perspective of software engineering and widely-used techniques for developing sophisticated software systems. Overview of requirements through system evolution and develops the Software Development Life Cycle (SDLC). Students work in a team environment to develop software requirements documentation.

SE 421
Introduction to the Unified Process and Modeling Language (UML)
(Prerequisite: CST 332)
Introduction to the Unified Process and Modeling Language, Incorporates the Rational Unified Process (RUP) and Unified Modeling Language (UML) and Rational Rose.

SE 425
Software Architecture and Development
(Prerequisite: LCT 330C)
Introduction to the concepts and practices of software and component interaction. Defines architectural abstraction and differentiation from implementation, algorithmic and data representation. Reinforces integrity and independence of architecture reusability.

SE 445
Database and Applications Development
(Prerequisite: CS 422C)
Introduces and explains techniques for database and Internet applications. Includes applications for Active Server Pages (ASP) and database integration utilizing the Structured Query Language (SQL).

SE 450
Human Computer Interface Engineering
(Prerequisite: CST 422)
An examination of the Graphical User Interface (GUI) design, development and evaluation. Discussion of interface technology, design methods and interface evaluation. Students will develop prototype systems and present team final projects in written and oral communication.

SE 460
Software Quality and Testing
(Prerequisite: CST 330C)
This course introduces the quality standard for software testing procedures for structured and unstructured environments. Continuous quality framework, based on Deming’s spiral model for continuous improvement, and details as applied to software testing.

SE 465
Introduction to UNIX/LINUX
Introduction to the history and fundamentals of the UNIX/LINUX Operating System. Includes the history of Linux and open source code, files and directories, shell commands, K Desktop Environment and GNU Network Object Model Environment (GNOME).

SE 486A
Software Engineering Project I
(Prerequisite: SE 486A)
This is the first Capstone Project Course towards the degree requirements. Students will apply the concepts and knowledge acquired in previous coursework towards the completion of a final project. Students will be working in teams of 3-5 students and developing the Operational Concept Document (OCD), Software Requirements Specification (SRS) and the Software Development Plan (SDD) for their final Project.

SE 486B
Software Engineering Project II
(Prerequisite: SE 486A)
This is the second Capstone Project Course towards the degree requirements. Students will continue to apply the concepts and knowledge acquired in previous coursework towards the completion of a final project. Students will be developing the System Prototype, Software Test Plan (STP) and the User’s Manual (UM) in preparation for their Final Project Report and Presentation.

SE 620
Principles of Software Engineering
A survey of principles of modern software engineering: development and maintenance of a software product and its supporting documents, software lifecycle and various models of development.

SE 621
Software Tools and Processes
Prepares students with the broad understanding of the software design and development tools and processes needed to construct software in a systematics manner. Lab work involves assignments to illustrate these concepts, tools and processes.

SE 625
Basic Software Architecture
Software architecture and its components and relationships, functionality, specifications, properties, interfaces and data models are examined during this course.

SE 630
Applied Software Architecture
An in-depth study of software architecture. Defines and discusses object-oriented programming, design, modeling and programming at an advanced level. Discusses the use of UML to model architectures. Introduces a standard implementation of a distributed, object-oriented middleware (e.g., CORBA, J2EE, Microsoft .NET, etc.). Students design and implement an architecture using software.

SE 625
Software Testing Strategies and Metrics
An overview of software testing strategies and software metrics. Develops topics on structured walk-through, unit, white and black box, integration, system, acceptance and regression testing. Formalizes process for requirements verification and software functional verification and validation. Introduces, examines and surveys advanced concepts of software engineering metrics and models from an application perspective.

SE 645
Designing Database Applications
An introduction to object-oriented modeling and design techniques for database applications. Discusses the benefits attributed to object-oriented techniques such as lower costs, shorter time to develop and better quality systems. Students are required to design and document a prototype database system using object-oriented modeling and relational database techniques.

SE 660
Human Computer Interface
This course prepares students to develop software user interfaces by providing a background in human computer interaction concepts. Includes procedures that form the basis of effective human computer interactions that meet human cognitive capabilities and organizational practices and processes. Design guidelines, principles and methodologies for constructing, managing, installing and maintaining interactive systems that optimize user productivity are explored. Students will also complete a project related interface requirements specification.

SE 651
User Interfaces and Software Engineering
A survey of current developments and tools for creation and run-time management of user interfaces. Students discuss HCI user expectations and needs and design an effective interface through the use of an interface requirements specification that includes object specification, navigation control, graphics and multi-media. The students complete a project that consists of development and evaluation of a user interface.

SE 655
Applications Software Development
A survey of current developments and tools for software development of current applications, such as internet and client/server. The Internet and the Web have revolutionized the way people communicate and organizations do business. This course will introduce students to the establishment, configuration and maintenance of intranet and internet Web site. Software development in this area includes network programming, remote method invocations, server-side and client-side programming, multi-threading, advanced GUI application development and on-line database processing.

SE 660
Software Quality Engineering
(Prerequisite: all software engineering core courses)
Emphasizes quality engineering approaches for software project management, planning, estimating, design, development and distribution. Understanding of Capacity Maturity Models, ISO 9001 and IEEE 12207 Standards is also emphasized. Based on their operational concepts document, students develop a well-defined software plan.

SE 686A
Software Engineering Project I
(Prerequisite: SE 660)
Study of the software lifecycle. Emphasizes software development and testing, logical organization of software project, appropriate documentation and development and completion of the SRS and SDD. Grading is by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).
SE 686B
Software Engineering Project II
(Prerequisites: SE 686A)
Continuation of CST 686A with development and completion of a software user's manual and software test plan. Students implement and present their completed projects. Grading is by "H" (for Honors, "B" or better work), "S" (for Marginal, "C" level work) or "U" (Unsatisfactory, "D" or below).

SM - Sports Management

SM 430
Introduction to Sports Management
The foundation of the course for the Sports Management Concentration this course is a survey of the principles of management applied to the administration of sports enterprises: planning, controlling, organizing, staffing and directing the various activities necessary for effective functioning. Examples of such activities include: golf course management, tennis club management, fitness center management, tournament management, etc.

SM 432
Principles of Leisure Services Management
This course examines the organization and administration of the leisure service field, ranging from not-for-profit entities such as parks and libraries to businesses such as lakes, amusement parks and country clubs. Students analyze operating problems and propose solutions to enhance their knowledge and outlook on leisure facilities and operational management.

SM 433
Sports Financial Management
(Prerequisites: FIN 310, IS 301)
An examination of the basic financial and accounting problems facing the operation of a sports enterprise, the course concentrates on the unique characteristics of sports organizations and programs, and provides the student with the skills necessary to effectively manage values, resources, and revenue streams. Students will develop skill in financial analysis and an appreciation of the financial decision-making process in the administration of sports enterprises.

SM 434
Principles and Problems of Coaching
The study of vital sociopsychological aspects of coaching, the primary focus of this course is on individual sports – golf, tennis, fitness, but also includes team sports – football, soccer, basketball, etc. Includes philosophy of coaching, sports administration, psychology of sport, physiology, and ethics. Emphasis is given to the technical, tactical, physical, and psychological components of players and coach-player relationships.

SM 435
Legal Aspects of Sports Administration
This course covers federal, state and organizational regulations impacting the sports industry. Focus is placed on contract law, tort liability, agency law, labor law, copyright, license and intellectual property law as applied to sports. The legal relationship of athletes as individuals and as members of a team to sports industry management will be discussed. General legal aspects of E.E.O., affirmative action and diversity in the workforce employing employees of the sports enterprise will also be covered.

SM 436
Sports Marketing and Promotions
(Prerequisite: SM 430, MKT 404)
This course introduces students to the principles of sports marketing and the application of these principles to sports related organizations. The primary focus is on planning, with additional emphasis on promotions management.

SOC - Sociology

SOC 100
Principles of Sociology +
(Prerequisites: ENG 100/101)
A critical introduction to the basic concepts in sociology and a basic examination of major theoretical perspectives including functionalism, symbolic interactionism and conflict theory. Students learn how to formulate research topics in sociology and evaluate various research methodologies. Topics for exploration include education, religion, race relations, gender identity, the social construction of the family, deviance and social problems.

SOC 260
Cultural Anthropology
(Prerequisites: ENG 100/101)
An introduction to the principles and processes of anthropology and culture. This course offers a mix of theoretical approaches that include evolutionism, historical particularism, diffusionism, functionalism and French structuralism, as well as methods of fieldwork and ethnography. Students explore the impact of culture on human behavior, the interrelationships among different parts of a culture and the adaptive quality of cultural systems.

SOC 310
Cultural Dynamics in the Workplace
As the workplace changes under the impact of new technologies and alterations in the compositions of the workforce, we need to rethink the nature of cultural dynamics. This course not only seeks to define the relationship of the workplace to the community, but also examines the historical development and contemporary relevance of social, artistic and economic matters crucial to a healthy perspective for employers and employees.

SOC 325
Contemporary Popular Culture
(Prerequisites: ENG 100/101)
A critical examination of contemporary popular culture in sociological perspective. Introduces students to the crucial debates in the field of cultural sociology, including a critique of the distinction between high and low forms of culture, the social distinction between work and leisure time, the impact of travel and tourism on indigenous cultures, the influence of society on individual patterns of consumption and personal taste and the sociology of everyday life. Discusses such topics as the mass media, sports, culture, fashion, youth culture, science fiction, rock music, talk shows, soap operas, Internet chat rooms, personal ads, home shopping and folklore. Students have the opportunity to incorporate their own popular cultural preferences as topics for papers, presentations and class projects.

SOC 328
Intercultural Thinking and Creativity
(Prerequisites: ENG 100/101)
An expansive overview of world consciousness, drawing upon the significant contributions of men and women from varied cultures and different fields of learning. Emphasizes the approach of comparative synthesis. Studies the world’s outstanding creative thinkers and the interconnectedness of their works.

SOC 332
Contemporary American Society
(Prerequisites: ENG 100/101)
An exploration of the relationship between television and society in a cultural and historical context. In particular, students analyze the impact of television on society and explore the ways in which television has changed how individuals view the world and receive information. Considers how contemporary visual culture has transformed society and discusses such issues as the social functions of advertising; social and corporate processes of television programming; the interrelationship between television, democracy and political participation; and current developments in technology.

SOC 336
American Film and Society +
(Prerequisites: ENG 100/101)
A critical examination of the complex relationship between film and society through the present; with which film both influences and is influenced by society. Emphasizes the importance of locating the meaning of film texts within social and historical perspective and identifies how the film industry influences the presentation of different groups of people and issues in society. Explores the interrelationship between film and technology, the impact of narrative and the institution of Hollywood on the sociological imagination and the nature of representation, particularly as it applies to race, class and gender.

SOC 344
Marriage, Sex and the Family
(Prerequisites: ENG 100/101)
Over the past 30 years, ideas about marriage, sex and the family seem to have changed. But have they? Using a sociological perspective, this course examines the institution of marriage and identifies family structures through an overview of the current topics affecting family life and a discussion of sex, marriage and family in historical and cross-cultural context. Covers topics including kinship ties, the sexual revolution, changing gender roles, remaining childless, alternative forms of family, divorce, family violence, the economy and the family and an aging population.

SOC 430
Culture, Technology and Society
(Prerequisites: ENG 100/101)
A survey of the social, cultural and historical development of technology. Examines the creation and social impact of such technological innovations as the printing press, the telegraph, the telephone, railroads, steam engines, internal combustion engines, automobiles, earthmoving equipment, radio, television, computers, nuclear power, satellite communications, facsimile machines, cellular phones, fiber optics and the Internet, among others. Emphasizes the effect of technological changes on work, education, consumption, politics, the environment and especially the effect of technology on race, class and gender.

SOC 445
Contemporary Social Problems
(Prerequisites: ENG 100/101)
A critical examination of historical and contemporary social conditions. Using various sociological perspectives, namely functionalism, conflict theory and an interactionist perspective, students explore the ways in which social problems are defined, learn how to evaluate policies designed to alleviate social problems and analyze the unintended consequences of social policies when issues of race, class, gender and other differences are not adequately taken into consideration.

SOC 490
Guided Study
(1.5-4.5 quarter units)
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

SOC 500
Understanding Cultural Pluralism in American Society +
(Prerequisite: ENG 100/101)
An analysis of the emergence of cultural pluralism in American society and its various forms as a socio-cultural imperative. Explores historical and cross-cultural perspectives on the issues of race, ethnicity, gender, migration and community development. Also examines the implications of the demographics in the United States and the con-
Course Descriptions

ccepts of inclusiveness and cross-cultural competen-
cies needed to understand diversity in a global context.

SOC 540 Power and Social Change
(Prerequisites: ENG 100/101) A critical examination of theories of power, includ-
ing the relationship of power to culture, social class, the economic order, government, ideology, poverty, race, sex and other topics. Studies commu-
nity, national and international power structures and institutional leaderships.

SOC 604 Culture and Socialization
(Prerequisites: ENG 100 and SOC 100) An in-depth examination of the concepts of culture and socialization, this course analyzes the social-
ization process as the key means through which culture is reproduced. Through a critical engage-
ment with competing theories of socialization, stu-
dents undertake advanced research projects, oral presen-
tations and written assignments. Lecture and discussion topics include issues of ethnic iden-
tity and cultural diversity, socio-economic, gender and racial stratification, media representations, dress, language and religion and schooling and the reproduction of inequality. Issues are explored from a cross-cultural perspective.

TAX - Taxation

TAX 601 Tax Research and Decision Making
(Prerequisite: ACC 201) This course is an examination of the primary sources of income tax law; the statutes and admin-
istrative and judicial interpretations; inquiry into the interaction of primary sources. Practical exer-
cises in the use of research tools in locating, com-
prehending and interpreting primary source mate-
rials are used. Emphasis is placed on adequate and correct technical writing and composition.

TAX 602 Federal Tax Procedure
(Prerequisite: ACC 201) This course is an analysis of federal tax procedure at the administrative level and in litigation: legal and practical aspects of Treasury regulations; administrative rulings; closing and compromise agreements; deficiency and jeopardy assessments; waivers; refund claims; mitigation of effects of limit-
atations; jurisdiction; pretrial and appellate proces-
s; tax collection; civil penalties; criminal prosecu-
tions; and the rights and privileges of the taxpayer. Tax preparers’ ethics, obligations and penalties are also highlighted.

TAX 603A Federal Income Taxation Theory for Individuals
(Prerequisite: ACC 201) This course is an introduction to federal taxation with emphasis on theoretical concepts. Special emphasis is placed on problems of individual tax-
payers including deductions, exemptions, credits, basis, depreciation and income.

TAX 603B Technological and Practical Aspects of Federal Taxation for Individuals
(Prerequisite: TAX 603A) This course is a practical application of Federal individual theory to actual workshop problems and tax returns using major tax computer software. Emphasis is on tax return forms and their correct preparation. Advanced topics highlighted.

TAX 605A Federal Taxation of Partners and Partnerships
(Prerequisite: ACC 201) This course is an introduction to Federal taxation with emphasis on theoretical concepts. Special focus is placed on analysis of tax problems of orga-
izing and operating partnerships with special emphasis on the treatment of distributions, with-
drawals of a partner, partnership dissolution and sales or exchanges of partnership interests.

TAX 605B Federal Taxation Theory of Corporations and Shareholders
(Prerequisite: ACC 201) An introduction to Federal taxation with emphasis on theoretical concepts, special emphasis is on transactions between corporations and shareholders, transfers to the corporation, capital structure, dividends and other distributions and corporate liquidations.

TAX 605C Technological and Practical Aspects of Federal Taxation for Partnerships and Corporations
(Prerequisites: TAX 605A and TAX 605B) A practical application of Federal partnership and corporation theory to actual workshop problems and returns using a major taxation software pro-
gram, this course places special emphasis on forms and their correct preparation. Advanced topics are highlighted.

TAX 608A Estate, Gift and Trust Taxation
(Prerequisite: ACC 201) Statutory materials applicable to Federal estate, gift and trust taxes and the preparation of appropriate tax forms are examined.

TAX 611 Taxation of Exempt Organizations
(Prerequisite: ACC 201) This course is an examination of U. S. taxation of tax-exempt organizations, including a broad range of nonprofit institutions; all conducting a wide variety of pursuits intended to serve the public good.

TAX 612 Retirement Plans and Deferred Compensation
(Prerequisite: ACC 201) An introduction to funded employee retirement plans including pension and profit sharing and thrift plans; stock bonus plans; self-employment retirement plans and individual retirement accounts with emphasis on fixed contribution plans, the course examines basic concepts of plans and trusts; participation and vesting requirements; hours of service and break-in-service rules; dis-
crimination in benefits or contributions; deductions for employer contributions; limitations on benefits and contributions; taxability of distributions; fidu-
ciary responsibility and reporting and disclosure requirements.

TAX 614 Taxation of International Transactions
(Prerequisite: ACC 201) This course examines U.S. taxation of foreign per-
sons, income sourcing, allocation of deductions, residency, foreign governments, transfers between commonly controlled persons, income tax treaties, U. S. citizens abroad, controlled foreign corpora-
tions, boycotts, foreign tax credits, foreign tax cred-
it limitation, foreign currency transactions, effec-
tively connected income, withholding, disposition of U.S. real property, U.S. possession source income, foreign sales corporations, foreign holding companies, foreign reorganizations.

TAX 619 Master’s Project
(Prerequisite: 27 quarter units of program coursework, including TAX 601) This course is a project in which students work under the guidance of faculty advis-
or. Students clarify research topics and identify data sources in preparation for the project. Students then gather data and present their research in both written and oral form to faculty and classmates. Grading is by “H” (for Honors “B” or better work), “S” (for Marginal, “C” level work) or “U” (Unsatisfactory, “D” or below).

TAX 690 Guided Study
Individual study under direction of instructor. Requires prior approval of appropriate academic department.

TED - Teacher Education

TED 605 The Diverse Classroom
TED 605 presents the complexity of today’s class-
room through cultural diversity, student develop-
ment, curriculum planning, including curriculum development, design, implementation and evalua-
tion.

TED 610 Introduction to the Intern Teaching Experience
(Prerequisite: Admission to the Intern Program) Designed to orient Interns to the program. Schedules will be developed for observation and assessment of instruction. Creating and maintain-
ing effective environments for student learning will be the major curricular focus. Interns will be assessing their own classroom environments and creating more effective possibilities. Emergency or survival pedagogical skills will be covered as Interns bring to class concerns from their develop-
ment learning environments.

TED 611 Educational Psychology
TED 611 examines how educational psychology is applied to learning and teaching. Learning theo-
ries, instructional approaches, learning environ-
ments and student assessment are studied.

TED 615 The Foundations of Education
TED 615 is the first course in the Teacher Preparation Program. The role and nature of schooling is explored through a range of philo-
osophical, historical, legal and political perspec-
tives within the context of the United States and Californian society and schooling.

TED 621A Language Development Methodology in Elementary School
(Prerequisites: TED 615, BTE students only. TED 612) This course is designed for multiple-subject cre-
dential candidates and focuses on current theories and research in language structure and use and in language learning, particularly those in the first and second language development. Social, cultural, political, legal, psychological, general pedagogic and specific methodological factors affecting the first and second language development are consid-
ered. Application of these theories, strategies and techniques of second language learning across con-
tent areas in diverse educational environment in elementary school is addressed.

TED 621B Reading and Language Arts Methodology for Elementary Schools
(Prerequisites: TED 615 and TED 621A) This course provides Multiple Subject Candidates with research-based methods and strategies for designing and implementing a balanced and com-
prehensive program of systematic instruction in reading, writing and related language arts aligned with the state adopted English Language Arts Academic Content Standards for Students and the Reading/Language Arts Framework. Course content is organized into four Reading Instruction Competence Assessment (RICA) domains.
Course Descriptions

TED 622A
Curriculum and Instruction I: History, Social Science, Physical Education, Visual and Performing Arts
(Prerequisite: TED 615 and TED 621A)
TED 622A focuses on multiple subject curriculum development and teaching History, Social Science, Physical Education, Visual and Performing Arts using State of California content standards. Content-specific teaching practices, lesson design, learning environments and assessment of student learning are emphasized to provide access to the curriculum for all students.

TED 622B
Curriculum and Instruction II: Mathematics and Science
(Prerequisites: TED 615 and TED 621A)
TED 622B focuses on multiple subject curriculum development and teaching math and science using State of California content standards. Content-specific teaching practices, lesson design and assessment of student learning are emphasized to provide access to the curriculum for all students.

TED 623
Language Development Methods for Secondary and Middle Schools
(Prerequisite: TED 615)
This course is designed for single-subject credential candidates and focuses on current theories and research in language structure and use and in language learning, particularly those in the first and second language development. Social, cultural, political, legal, psychological, general pedagogical and specific methodological factors affecting the first and second language development are considered. Application of these theories, strategies and techniques of second language learning across content areas in diverse educational environments in elementary school is addressed.

TED 624
Content Area Literacy for Secondary and Middle Schools
(Prerequisites: TED 615 and TED 623)
This course is aligned with the California Board of Education adopted academic content standards in English Language Reading/Language Arts Framework for students who are speakers of English, English language learners (ELLs) and students with special needs and is designed to assist Single Subject Credential Candidates in developing the background and skills necessary to teach literacy in the content areas to middle/junior and/or senior high school students in the culturally and linguistically diverse classrooms in the California public schools.

TED 625A
Curriculum Development for Secondary and Middle Schools
(Prerequisites: TED 615 and TED 623)
This course integrates the California K-12 academic content standards with effective curriculum development principles for diverse learners. Through guided field activities, teacher candidates will access student background information for the purpose of designing and reflecting upon long and short term planning that enables engaged student learning and provides access to the curriculum for all learners.

TED 625B
Instruction and Classroom Management for Secondary and Middle Schools
(Prerequisites: TED 615, TED 623 and TED 625A)
This course builds on the curriculum principles established in TED 625A by incorporating within a well-designed lesson plan, instructional strategies and related classroom management principles. The class also provides strategies for dealing with unproductive student behavior.

TED 627
Methodology for Cross-Cultural Instruction
(TED Certificate Course only)
(Prerequisites: Possession of a credential by the California Commission on Teacher Credentialing; TED 615, TED 621A or TED 623)
An examination of content-area instruction for English language learners. Covers strategies that foster English Language Development (ELD) lesson development, adaptation and delivery. Also covers Specially Designed Academic Instruction in English (SDAIE) and “instructional scaffolds” as well as “instructional conversations” to support ELD.

TED 629
Student Teaching Seminar
(3 quarter units)
TED 629 integrates theory and practical approaches to situations experienced by candidates during their Student Teaching experiences. Content areas include: (1) School Culture and Classroom Learning Environment, (2) Classroom Management, (3) Lesson Design, Implementation and Reflection and (4) Legal and Ethical Issues Related to the Teaching Profession.

TED 629I
Intern Teaching Seminar
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course is designed to develop the assessment program for Interns. Interns will be developing assessment portfolios. Objectives will be set for the program; activities will be designed to meet the objectives; assessment tasks will be planned to evaluate the meeting of the objectives; and documentation of the process will be collected and organized. The documentation will be organized and presented at the close of the seminar.

TED 630A
Beginning Student Teaching
(Note: Does not grant graduate level credit)
TED 630A comprises the first month of the full-day, full-time, semester-long Student Teaching experience, in which candidates are placed with certified field supervisors. Candidates must successfully complete all components in their supervised Beginning Student Teaching: (1) school-site and classroom orientation including school personnel interviews, (2) onsite classroom observations, (3) lesson plan design and implementation and reflection within the context of fulfilling 4 professional responsibilities. Candidates also attend TED 629 Student Teaching Seminar, which integrates theory and practical application into their teaching repertoire and enhance their sensitivity to second language learners. Not recommended for BTE students.

TED 630B
Student Teaching
(Prerequisite: TED 630A)
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
Student Teaching (TED 630B, C, D) comprises the second, third and fourth months of the full-day, full-time semester-long Student Teaching experience. Candidates are required to successfully complete four components: (1) Classroom responsibilities, (2) lesson plan design and presentation and (3) off-site classroom observations, each component within the context of fulfilling (4) professional responsibilities.

Multiple-subject candidates spend eight weeks in both a K-2 and a 3-6 classroom (non-traditional programs may vary). One of the two assignments is with a certified Field Supervisor. Single-subject candidates experience teaching a minimum of four academic periods a day in two grade levels; a minimum of three of four periods must be in their designated academic area. Candidates complete TED 629 Student Teaching Seminar (as begun in TED 630A), which integrates theory and practical approaches to real-life situations experienced by candidates during TED 630 B, C, D. Note: The grade assigned for the course will be either satisfactory or unsatisfactory.

TED 638
Spanish for the Humanities Classroom
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course is designed for single-subject credential candidates and focuses on current theories and research in language structure and use and in language learning, particularly those in the first and second language development. Social, cultural, political, legal, psychological, general pedagogical and specific methodological factors affecting the first and second language development are considered. Application of these theories, strategies and techniques of second language learning across content areas in diverse educational environments in elementary school is addressed.

TED 639
Spanish for the Humanities Classroom
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course is designed for single-subject credential candidates and focuses on current theories and research in language structure and use and in language learning, particularly those in the first and second language development. Social, cultural, political, legal, psychological, general pedagogical and specific methodological factors affecting the first and second language development are considered. Application of these theories, strategies and techniques of second language learning across content areas in diverse educational environments in elementary school is addressed.

TED 640
Psycho-Social Development in Early Childhood
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course addresses the psycho-social dimension of development as it pertains to cognitive development in early childhood. A brief history of developmental change, current issues in developmental study, methods of studying children and adolescents. Ideas from Jean Piaget to Howard Gardner will also be investigated.

TED 641
Teaching the Young Child
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course addresses the psycho-social dimension of development as it pertains to cognitive development in early childhood. A brief history of developmental change, current issues in developmental study, methods of studying children and adolescents. Ideas from Jean Piaget to Howard Gardner will also be investigated.

TED 642
Early Childhood Cognitive Development
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course addresses the psycho-social dimension of development as it pertains to cognitive development in early childhood. A brief history of developmental change, current issues in developmental study, methods of studying children and adolescents. Ideas from Jean Piaget to Howard Gardner will also be investigated.

TED 643
Assessment in the Middle School Classroom
(Prerequisite: Admission to the Intern Program)
(3 quarter units)
This course addresses the psycho-social dimension of development as it pertains to cognitive development in early childhood. A brief history of developmental change, current issues in developmental study, methods of studying children and adolescents. Ideas from Jean Piaget to Howard Gardner will also be investigated.
ricular documents and other professional associations in education; development of plans to ensure educational equity and implementation in curriculum content and educational practices; examinations of the roles of historical, legal, social, political, economic and multicultural/multilingual perspectives on assessment; and examination of different learning styles in a performance-based, authentic assessment curriculum.

TED 656 Contemporary Trends and Models in Middle School Education

Offers an examination of contemporary schooling policies and teaching practices in relationship to the most current issues, theories and research in education. A major focus of the class shall consider the historical and philosophical mission and development of middle level education. Also offers a diversity of institutional approaches in order to reach learners from diverse cultural backgrounds with various learning styles.

TED 657 Psychology and the Middle School

Focuses on curriculum-based advisement for the middle school student. University students learn how common traits and individual differences that characterize multiple intelligence in children and adolescents affect individual development. Students also study how economic and gender issues can impact the development of adolescent self-esteem and self-efficacy. A strong discussion of conflict resolution in middle school is also considered. This course shall also offer a diversity of instructional approaches in order to reach learners from diverse cultural backgrounds with various learning styles.

TED 658 Leadership and the Middle School

Promotes principles of leadership that focus on stakeholder cohesiveness within the middle school and the planning of curriculum and instruction based on knowledge of appropriate student outcomes. A clear understanding of early adolescent development as it relates to state curriculum and other professional association objectives is one significant outcome of this course. Educational equity for people of all cultures and the implementation of such curriculum content and educational practices shall be demonstrated while the roles of historical, legal, social, political, economic and multicultural/multilingual perspectives are considered in depth.

TED 660 The Bilingual Bi-Cognitive Child

A survey of research, theory and practices related to the learning and development of the bilingual child. Applies theories on culture, cognition, bilingualism, biculturalism and psychological dynamics of a positive self-esteem and academic development.

TED 661 Socio-linguistics

An examination of the development of language within a socio-cultural context. Studies the significant role of language in culture transmission and social/political control. Emphasizes the role of code-mixing and code-switching as a communication system in a multilingual, multicultural society.

TED 662 Comparative Linguistics

An analysis of the structure, phonology and morphology of language. Compares and contrasts the structure of different languages and addresses the linguistic problems in the transfer of errors from L1 to L2. Emphasizes the strategies for teaching English Language Development.

TED 665 Cognition, Language and Culture

Research, theory and practices related to the learn-
domain concepts, Fourier series and Fourier transform, basic filtering concepts, the Laplace transform, and applications to communication systems.

**WC 302** Probability and Random Processes in Engineering
Introduction to the concepts of probability, random variables, functions of random variables, random sequences and random processes, and elements of estimation theory.

**WC 601** Analog and Digital Communications Fundamentals
Course focuses on basic analog and digital principles and their application to the analysis and design of real-world communication systems.

**WC 602** Wireless Communications: Principles and Practice
(Prerequisite: WC 601)
This course covers the topics in wireless communication systems, analysis of modern wireless communication system infrastructures, the cellular concept and system design fundamentals, mobile radio propagation, multiple access techniques for wireless communications, wireless networking.

**WC 603** Wireless Networking: Architectures, Protocols and Standards
(Prerequisite: WC 602)
This course addresses the important issues of wireless networking, including architectures, protocols and standards. It describes concepts, technology and applications of wireless networking as used in current and next generation wireless networks. It also considers the engineering aspects of network functions and designs, mobility management, wireless enterprise networks, GSM, network signaling, WAP, mobile IP and 3G systems.

**WC 604** Coding and Modulation for Wireless Communications
(Prerequisite: WC 602)
This course describes the coding and modulation techniques, and comparative studies of different coding and decoding schemes including Trellis and Turbo coding. Studies of different modulation formats and their effects on wireless channels, analysis of different modulation schemes applied to the current wireless standards.

**WC 605** Information, Privacy and Security in Wireless Systems
(Prerequisite: WC 602)
Analysis of the security and privacy issues associated with wireless systems. Cost/risk trade-offs. Technical, physical, and administrative methods of providing security. Control of access through technical and physical means. Identification and authentication. Encryption, including the Data Encryption Standard (DES) and public key systems. Management of encryption systems, including key protection and distribution. Discussion of practices and case studies related to the ethical aspects in the telecommunication industries.

**WC 606** CDMA: Wireless Standards and Applications
(Prerequisite: WC 602)
Analysis of CDMA (code division multiple access) concepts, models and techniques. An overview of second- and third-generation (3G) air interfaces. Direct-sequence spread spectrum (DSSS); physical and logical channels; CDMA IS-95 call processing, diversity, combining and antennas, access and paging channel capacity; planning of a CDMA system.

**WC 607** Third-Generation (3G) Wireless Networks
(Prerequisite: WC 602)
Third-generation standards, evolution of TDMA-based 2G systems to 3G systems; CDMA2000 system architecture; third generation European standards, wireless data in CDMA; wireless local loop; Wireless application protocol (WAP), WLAN, and Bluetooth technologies.

**WC 608** Engineering Software for Wireless System Development
(Prerequisite: WC 602)
Hands-on strategic analysis tools designed to help planners, engineers, and technologists rapidly, but thoroughly, develop wireless, wired, and broadband network and service plans including detailed technical and business analysis.

**WC 609** Communication Systems Modeling with Wireless Applications
(Prerequisite: WC 602)
Course focuses on simulation models built with MATLAB programming software that can serve as virtual laboratories for predicting the impact of system design changes for advanced digital communication systems.

**WC 610** Next-Generation Wireless Infrastructures and Standards
(Prerequisite: WC 602)
Course examines the visions of wireless communications applications in the 21st century: 4G mobile systems, wireless migration to packet networks, development of international standards, standardization of broadband wireless access, continuing evolution of CDMA, WCDMA radio access technology, wireless ATM networks, and new systems for PCS via satellite.

**WC 611A** Master's Research Project I
(Prerequisite: All core requirements)
This course is the first part of the Master’s Research project. It focuses on the research and selection of an appropriate topic on one of the research or applications in the field of wireless communication systems. Student project teams research the topic of the project and complete the project proposal and timelines for project completions. Grading by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work), or “U” (Unsatisfactory, “D” or below). Prerequisites: Completion of a minimum of eight out of ten courses, WC 601 through WC 610.

**WC 611B** Master's Research Project II
(Prerequisite: WC 611A)
A continuation of WC 611A. Students complete the project including all required documentation and formally present their final product to a review panel for evaluation. Grading by “H” (for Honors, “B” or better work), “S” (for Marginal, “C” level work), or “U” (Unsatisfactory, “D” or below).
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James Leon Hutcherson, Ed.S., Point Loma Nazarene College
Myrtice Josephine Irish, Ed.D., University of Laverne
Julie M. Isherwood, Ph.D., University of Southern California
Angela Renee Jackson, M.P.A., San Diego State University
Alice Jacobs, Ed.D., Nova Southeastern University
Keith G. Jaeger, M.A., California State University, Los Angeles
Terrance G. Jakubowski, Ph.D., University of Southern California
Helen Foster James, Ed.D., Northern Arizona University
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Michael Jack Jefferson, M.Ed., University of Laverne
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223
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225
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Index

A

Academic/Admissions Advising .......................... 44
Academic and Administrative Officers .................. 1
Academic Center Security .............................. 23
Academic Dismissal ...................................... 63, 71
Academic Dishonesty ..................................... 49
Academic Information for Graduate Degrees .......... 68
Academic Information for Undergraduate Degrees .... 58
Academic Probation ........................................ 63, 70
Accelerated Studies ....................................... 52
Accreditation, Memberships .............................. 19
ACT-PEP .................................................. 61
Adjunct Faculty ............................................. 224
Administration ............................................. 1, 10, 11
Admission, Graduate ...................................... 68
Admission, Provisional Status ............................ 59, 68
Admission, Undergraduate ................................ 58
Advanced Placement Exams .............................. 61
AIME ........................................................ 58
Assisted Instruction In English ........................... 59
Assisted Instruction in Mathematics ..................... 59
Curriculum Requirements .................................. 59
Program Purpose and Population Served ................ 58
Alternative Educational Funding ......................... 41
Additional Information Sources .......................... 41
Aid for Native Americans .................................. 41
Army and Air Force Reserve Officer Training (ROTC) .... 41
California State Rehabilitation ............................ 41
Corporate Tuition Assistance ............................. 41
Private Lenders ............................................. 41
Specialized Programs ...................................... 41
Alumni Relations .......................................... 25
Animals on Campus ........................................ 52
Appeal ..................................................... 48
Appellate Procedure ....................................... 50
Application for Graduation ............................... 65, 71
Approval for the Training of Veterans .................. 55
Approved General Education Courses ................. 75
Areas of Specialization for the E.M.B.A. ............... 122
Areas of Specialization for the M.A. Teaching ....... 139
Areas of Specialization for the M.B.A. ................. 119
Area of Specialization for the M.P.A. ................... 125
Areas of Specialization for the M.F.S. .................. 123
Associate of Arts ............................................ 81
Attendance Procedures .................................... 45
Auditing Courses .......................................... 51

B

Bachelor of Arts ........................................... 81, 107
Bachelor of Business Administration ..................... 109
Bachelor of Science ....................................... 90, 112, 169
Bachelor of Science in Nursing .......................... 95
Bakersfield Academic Center ............................. 14
Bar From Attendance ...................................... 46
Board of Trustees ........................................... 1
Bookstore ..................................................... 24

C

Calendar ....................................................... 2, 3
California Credential Candidate Placement File Service .. 146
California Credentials, General Information ............ 18
California State Rehabilitation ........................... 41
Campus Locations ......................................... 7
Cancellation of Classes .................................... 46
Career Development and Student Assessment Center .... 25
Career Services ............................................. 26
Catalog Effective Date .................................... 63, 71
Central Administration ..................................... 10
Certificate Programs ...................................... 18
Certificate in Accountancy ................................ 129
Certificate in Criminal Justice ............................ 129
Certificate in Education Technology ..................... 166
Certificate in Electronic Business ......................... 130
Certificate in Finance ..................................... 130
Certificate in Health Care Administration ............... 131
Certificate in Hospitality and Casino Management .... 131
Certificate in Human Resources Management ........ 130
Certificate in Information Technology .................. 130
Certificate in International Business .................... 131
Certificate in Marketing .................................. 131
Certificate in Sports Management ....................... 132
Certificate in Teachers Using Technology ............... 166
Challenge by Examination ............................... 61, 69
Change of Academic Program ............................ 53
Chapter 30 (New G.I. Bill) .............................. 40
Chapter 31 (Vocational Rehabilitation) .................. 40
Chapter 32 (VEAP) ....................................... 40
Chapter 34 (G.I. Bill) ..................................... 40
Chapter 35 (Dependants Benefits) ....................... 40
Chapter 106 (Selected Reservists/National Guard) .... 40
CLAD Certificate .......................................... 165
Class Calendar .............................................. 2, 3
Class Schedules ............................................. 4, 5
CLEP (College Level Examination Program) ............ 60
Commencement Exercises ................................ 26, 65, 71
Committee on the Application of Standards, (CAS) .... 55
Complaints Relating to Discrimination or Sexual Harassment ..... 46
Computer-Based Information Systems Research and Development Center ......................... 24
Computer Lab Regulations ................................ 56
Computer Software and Email Policy ..................... 56
Computing Grade Point Averages ......................... 62, 70
Concentration in Accountancy ............................ 110
Concentration in Database Administration .............. 115
Concentration in Electronic Business ..................... 115
Concentration in Hospitality and Casino Management .... 71
Concentration in Human Resource Management ........ 111
Concentration in Marketing .............................. 111
Concentration in Sports Management .................... 111
Concentration in Telecommunication .................... 115
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concurrent Enrollment at Other Institutions</td>
</tr>
<tr>
<td>Conferences and Special Events</td>
</tr>
<tr>
<td>Continuing Education</td>
</tr>
<tr>
<td>Course Descriptions</td>
</tr>
<tr>
<td>Course Numbering System</td>
</tr>
<tr>
<td>Course Offerings</td>
</tr>
<tr>
<td>English Language Programs (ELP)</td>
</tr>
<tr>
<td>Grading System</td>
</tr>
<tr>
<td>Core Adjunct Faculty</td>
</tr>
<tr>
<td>Corporate Tuition Assistance</td>
</tr>
<tr>
<td>Costa Mesa Academic Center</td>
</tr>
<tr>
<td>Course Descriptions</td>
</tr>
<tr>
<td>Course Numbering System</td>
</tr>
<tr>
<td>Course Scheduling</td>
</tr>
<tr>
<td>Course Waivers</td>
</tr>
<tr>
<td>Course Withdrawal</td>
</tr>
<tr>
<td>Credential and Certificate Programs, School of Education</td>
</tr>
<tr>
<td>CLAD Certificate</td>
</tr>
<tr>
<td>Credential Information</td>
</tr>
<tr>
<td>Educational Technology Certificate</td>
</tr>
<tr>
<td>Fifth Year Professional Clear Credential</td>
</tr>
<tr>
<td>Preliminary Level I Education Specialist Credential: Mild/Moderate or Moderate/Severe Disabilities with CLAD Certificate</td>
</tr>
<tr>
<td>Preliminary Level I Education Specialist Credential: Mild/Moderate Disabilities with CLAD Certificate</td>
</tr>
<tr>
<td>Preliminary Level I Education Specialist Credential: Moderate/Severe Disabilities with CLAD Certificate</td>
</tr>
<tr>
<td>Preliminary Level I Education Specialist: Mild/Moderate Disabilities with Concurrent Teacher Education or BTE Multiple- or Single-Subject Credential</td>
</tr>
<tr>
<td>Preliminary Level I Education Specialist: Moderate/Severe Disabilities with Concurrent Teacher Education or BTE Multiple- or Single-Subject Credential</td>
</tr>
<tr>
<td>Preliminary Multiple-Subject Teaching Credential Program with BCLAD Emphasis Option</td>
</tr>
<tr>
<td>Preliminary Single-Subject Credential with BCLAD Emphasis Option</td>
</tr>
<tr>
<td>Preliminary Tier I Administrative Services Certificate/Credential</td>
</tr>
<tr>
<td>Professional Level II Education Specialist Credential</td>
</tr>
<tr>
<td>Professional Level II Education Specialist: Mild/Moderate Disabilities</td>
</tr>
<tr>
<td>Professional Level II Education Specialist: Moderate/Severe Disabilities</td>
</tr>
<tr>
<td>Professional Tier II Administrative Services Credential</td>
</tr>
<tr>
<td>Pupil Personnel Services Credential School Counseling</td>
</tr>
<tr>
<td>Pupil Personnel Services Credential School Psychology</td>
</tr>
<tr>
<td>State of California Requirements for Multiple- and Single-Subject Credential Programs</td>
</tr>
<tr>
<td>Teachers Using Technology Certificate</td>
</tr>
<tr>
<td>Credit by Examination</td>
</tr>
<tr>
<td>Credential Information Applicable to All Programs</td>
</tr>
<tr>
<td>Credit Granted for Educational Programs in Non-Collegiate Organizations</td>
</tr>
<tr>
<td>Credit Granted for Military Education</td>
</tr>
<tr>
<td>Credit, Sources of</td>
</tr>
<tr>
<td>Cultural and International Studies</td>
</tr>
<tr>
<td>D</td>
</tr>
<tr>
<td>DANTES</td>
</tr>
<tr>
<td>Degree Conferral</td>
</tr>
<tr>
<td>DARS</td>
</tr>
<tr>
<td>Degree Offerings</td>
</tr>
<tr>
<td>Departmental Examinations, N. U.</td>
</tr>
<tr>
<td>Development and Alumni Relations</td>
</tr>
<tr>
<td>Disabilities</td>
</tr>
<tr>
<td>Discrimination</td>
</tr>
<tr>
<td>Discipline</td>
</tr>
<tr>
<td>Dismissal</td>
</tr>
<tr>
<td>Disqualification</td>
</tr>
<tr>
<td>E</td>
</tr>
<tr>
<td>English Language Programs</td>
</tr>
<tr>
<td>English Placement</td>
</tr>
<tr>
<td>Enrollment Agreement</td>
</tr>
<tr>
<td>Evaluations - English and Mathematics</td>
</tr>
<tr>
<td>F</td>
</tr>
<tr>
<td>Faculty</td>
</tr>
<tr>
<td>Faculty Advising</td>
</tr>
<tr>
<td>Faculty, School of Arts and Sciences</td>
</tr>
<tr>
<td>Faculty, School of Business and Information Management</td>
</tr>
<tr>
<td>Faculty, School of Education</td>
</tr>
<tr>
<td>Faculty, School of Engineering and Technology</td>
</tr>
<tr>
<td>Familiarity With University Regulations</td>
</tr>
<tr>
<td>Family Educational Rights and Privacy Act of 1974</td>
</tr>
<tr>
<td>Fees List</td>
</tr>
<tr>
<td>Fifth Year</td>
</tr>
<tr>
<td>Finance Committee</td>
</tr>
<tr>
<td>Financial Aid</td>
</tr>
<tr>
<td>Application Packets</td>
</tr>
<tr>
<td>Calendar</td>
</tr>
<tr>
<td>Dependency Status</td>
</tr>
<tr>
<td>How to Apply</td>
</tr>
<tr>
<td>In-School Deferment</td>
</tr>
<tr>
<td>Programs</td>
</tr>
<tr>
<td>Student Eligibility Requirements</td>
</tr>
<tr>
<td>Student Loan Deferment</td>
</tr>
<tr>
<td>Fresno Academic Center</td>
</tr>
<tr>
<td>Full-Time Student Status</td>
</tr>
<tr>
<td>G</td>
</tr>
<tr>
<td>General Admission Procedures</td>
</tr>
<tr>
<td>General Description</td>
</tr>
<tr>
<td>General Education</td>
</tr>
<tr>
<td>Approved Courses</td>
</tr>
<tr>
<td>Program Requirements</td>
</tr>
<tr>
<td>General Education Curriculum</td>
</tr>
<tr>
<td>General Fees</td>
</tr>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>General Policies and Procedures</td>
</tr>
</tbody>
</table>
Index

Global Master of Business Administration ........................................... 112
Grade Appeals ................................................................. 51
Appeal Process ............................................................... 51
Committee ................................................................. 51
Grounds for a Grade Appeal ...................................................... 51
Grade Point Average Requirements (Undergraduate) ...................... 62
Grade Reporting ............................................................... 54
Grade Warning (Graduate) ........................................................ 70
Grading System ................................................................. 62, 69
Graduate, Class Schedules ........................................................ 5
Graduate Degrees Offerings ........................................................ 18
Graduate Degrees, School of Arts and Sciences ............................ 78, 97
Graduate Degrees, School of Business and Information Management ........................................... 104, 117
Graduate Degrees, School of Education ........................................ 134, 138
Graduate Degrees, School of Engineering and Technology ............ 168, 171
Graduate Degrees, Academic Information .................................... 68
Graduation Requirements, Graduate .......................................... 71
Graduation Requirements, Undergraduate .................................... 63
Granting of Credit ............................................................... 19, 54
Grievance Procedures ........................................................... 47
Appeal ................................................................. 48
Formal Procedures ............................................................. 47
Informal Procedures ............................................................. 47
Guided Study ................................................................. 53

H

Hearing Procedures ................................................................. 50
Hearing Rights ................................................................. 51

I

Incomplete Interrupt ............................................................... 63, 70
Independent Study ............................................................... 52
International Cultural Studies .................................................... 78
International Students .......................................................... 44
Admission ................................................................. 44
Language Proficiency ........................................................... 45
Orientation ................................................................. 45
TOEFL ................................................................. 45
Transcript Evaluation ............................................................ 45
Internet, Student Access ......................................................... 24
Internships ................................................................. 53, 134, 152, 155, 162

J-K

Job Placement and Career Services ................................................ 26

L

Learning Partnerships ............................................................. 23
Library Resources ............................................................... 22
Library Services ............................................................... 22
Borrowing Privileges and Fines .................................................... 51
Library System ............................................................... 21
Location Key ................................................................. 7
Location Maps ................................................................. 8, 9, 12, 13
Los Angeles Academic Center .................................................. 14

M

Major and Minor Requirements .................................................. 64
Major in Accountancy ........................................................... 112
Major in Behavioral Science .................................................... 82
Major in Computer Science ..................................................... 169
Major in Criminal Justice ......................................................... 113
Major in Earth Sciences ........................................................ 91
Major in English ................................................................. 83
Major in Financial Management ............................................... 114
Major in Global Studies ........................................................ 84
Major in Information Systems .................................................. 115
Major in Information Technology ............................................ 116
Major in Interdisciplinary Studies ............................................. 85
Major in Legal Studies .......................................................... 107
Major in Liberal Studies ........................................................ 91
Major in Life Sciences .......................................................... 92
Major in Management ........................................................ 108
Major in Mathematics .......................................................... 93
Major in Multimedia Arts ......................................................... 88
Major in Multiple Subjects ...................................................... 86
Major in Organizational Behavior ............................................. 94
Major in Psychology ............................................................ 89
Major in Software Engineering ............................................... 170
Maps ................................................................. 6, 8-9, 12-13
Master of Arts in Counseling Psychology .................................. 97-98
Master of Arts in English ....................................................... 98-99
Master of Arts in Human Resources Management ...................... 117
Master of Arts in Management ............................................... 117
Master of Arts in Teaching ..................................................... 138
Master of Business Administration ......................................... 118
Master of Business Administration, Executive ......................... 122
Master of Education in Crosscultural Teaching with a Single- or Multiple-Subject Credential with BCLAD Emphasis Option .................................................. 139
Master of Fine Arts in Film Art Studies ....................................... 100
Master of Forensic Sciences .................................................... 123
Master of Health Care Administration .................................... 123-124
Master of Arts in Human Behavior .......................................... 99
Master of Public Administration .............................................. 124
Master of Science in Computer Science .................................... 171
Master of Science in Educational Administration ...................... 141
Master of Science in Educational Counseling .......................... 141
Master of Science in Educational Technology ............................ 142
Master of Science in Electronic Business .................................. 125
Master of Science in Environmental Engineering ....................... 172
Master of Science in Finance ................................................ 126
Master of Science in Industrial-Organizational Psychology .......... 101-102
Master of Science in Information Systems .................................. 126-127
Master of Science in Instructional Technology .......................... 101
Master of Science in Organizational Leadership ........................ 118
Master of Science in School Psychology ................................... 143
Master of Science in Software Engineering ................................ 173
Master of Science in Special Education .................................... 145
# Index

Master of Science in Taxation .................................................. 127
Master of Science in Technology Management .......................... 128
Master of Science in Wireless Communication .......................... 174
Master/Credential Provisional ................................................. 68
Mathematics and English Evaluation ...................................... 58
Mathematics Placement ......................................................... 58
Matriculation/DARS ............................................................. 59, 68
Memorandum of Agreement .................................................... 54
Military Community ............................................................. 26
Military Tuition Assistance ..................................................... 40
Minor in Accountancy ........................................................... 116
Minor in Addictive Disorders .................................................. 82, 90, 97
Minor in Business Administration .......................................... 116
Minor in Business Studies ....................................................... 116
Minor in Computer Science .................................................... 171
Minor in Criminal Justice Administration ................................. 83, 90, 117
Minor in Information Technology ............................................. 117
Minor in Legal Studies ........................................................... 117
Minor in Mathematics ............................................................ 97
Minor in Multimedia Arts ....................................................... 97
Minor in Psychological Research ............................................. 83, 90, 97
Minor in Technology ............................................................. 117
Mission Statement ............................................................... 19
MIVER ................................................................................. 26
Multiple Subject Matter Equivalency Program ........................... 102

## N

National University Alumni Association (NUAA) ....................... 25
National University Calendar .................................................. 2, 3
National University Memorial Degree ..................................... 63
Native American, Aid ............................................................. 40
Network Newspaper .............................................................. 24
Non-Degree Certificates, School of Business and Information
  Management ........................................................................ 129
Non-Degree Students ............................................................ 51
Northern California Administration ......................................... 15
NUAA (National University Alumni Association) ...................... 25
NUI (National University Institute for Community
  Research and Civic Entrepreneurship) ................................. 25

## O

Office for Student Affairs ....................................................... 48
Online Course Refund Policy ................................................ 21
Orange Learning Center ......................................................... 14

## P

Payments and Release of Records .......................................... 22
Placement by Evaluation ......................................................... 58
English ................................................................................. 58
Mathematics ......................................................................... 58
Plagiarism ............................................................................. 49
Plus/Minus Grading ............................................................... 62, 70
Policies and Procedures ......................................................... 44-56
Practica ................................................................................. 53
Preliminary Level I Education Specialist Credential: Mild/Moderate
  or Moderate/Severe Disabilities with CLAD Certificate ........ 158
Preliminary Level I Education Specialist Credential: Mild/Moderate
  Disabilities with Concurrent Teacher Education or BTE
  Multiple- or Single-Subject Credential ................................. 159
Preliminary Level I Education Specialist Credential: Moderate/Severe
  Disabilities with Concurrent Teacher Education or BTE
  Multiple- or Single-Subject Credential ................................. 162
Preliminary Multiple-Subject Teaching Credential Program with
  BCLAD Emphasis Option ................................................... 147
Preliminary Single-Subject Credential with BCLAD Emphasis
  Option .............................................................................. 149
Preliminary Tier I Administrative Services Certificate/Credential 154
Privacy Act of 1974 ............................................................... 55
Private Lenders ................................................................. 41
Probation .......................................................................... 63, 70
Professional Level II Education Specialist Credential ............... 163
Professional Level II Education Specialist: Mild/Moderate
  Disabilities ................................................................. 164
Professional Level II Education Specialist: Moderate/Severe
  Disabilities ................................................................. 164
Professional Tier II Administrative Services Credential ................ 156
Provisional Status Admission ................................................ 59, 68
Public Programs ................................................................. 23
Pupil Personnel Services Credential-School Counseling ............ 156
Pupil Personnel Services Credential-School Psychology .............. 157

## R

Readmission Procedures ....................................................... 44
Reasons for Probation, Suspension, and Dismissal of Students ... 49
Redding Academic Center ..................................................... 15
Refund Policy ................................................................. 20, 28
For Continuing Education Students ....................................... 28
For Financial Aid Students .................................................... 21
For Online Students ............................................................ 21
Registration ....................................................................... 44
Reinstatement ................................................................. 63, 70
Removal from Probation ..................................................... 70
Repetition of Courses ......................................................... 63, 70
Residences ....................................................................... 53
Residency Requirements ...................................................... 71
ROTC (Army and Air Force Reserve Officer Training) ............. 40

## S

Sacramento Academic Center ............................................... 15
Safety Program ................................................................. 23
San Bernardino Academic Center ........................................ 14
San Diego Administration .................................................... 11
San Diego Learning Centers ................................................ 14
San Fernando Valley Learning Center ................................... 14
San Jose Academic Center ................................................... 15
Satisfactory Academic Progress ............................................ 63, 70
Index

Scholarships ................................................................. 39
Collegiate Honor Award ............................................. 39
Community Scholarship .............................................. 39
Externally Funded Scholarships ................................. 40
Need-Based Grants .................................................... 39
NU Presidential Tuition Scholarship ............................ 39
Rules and Policies ...................................................... 39
School of Arts and Sciences ......................................... 78
Associate of Arts ....................................................... 81
Bachelor of Arts ....................................................... 81
Bachelor of Science ................................................... 90
Bachelor of Science in Nursing ..................................... 95
Faculty ................................................................. 79
Graduate Degrees ..................................................... 78, 97
Minors .............................................................. 82, 82, 90, 97
Mission Statement .................................................... 81
Special Programs ....................................................... 78
School of Business and Information Management ........ 107
Areas of Specialization for the M.B.A. ......................... 118
Areas of Specialization for the M.P.A. ......................... 125
Bachelor of Arts ....................................................... 107
Bachelor of Business Administration ........................... 109
Bachelor of Science ................................................... 112
Certificate Programs ................................................ 129-132
Faculty ................................................................. 105
Graduate Degrees ..................................................... 117
Mission Statement ..................................................... 107
School of Education .................................................. 138
California Credential Program Information ................. 145
Certificate Programs ................................................ 164-165
Faculty ................................................................. 135-137
Fifth Year ................................................................. 151-152
Graduate Degrees ..................................................... 138-145
Mission Statement ..................................................... 138
School of Engineering and Technology ....................... 168
Bachelor of Science ................................................... 169
Faculty ................................................................. 169
Graduate Degrees ..................................................... 171
Minors .............................................................. 171
Mission Statement ..................................................... 169
Second Degree from National University ....................... 63, 71
Selection of Candidates .............................................. 44
Servicemembers Opportunity College Agreement (SOC) .. 54
Sexual Harassment ..................................................... 46
SOC (Servicemembers Opportunity College Agreement) ... 54
Social Security Number, use of .................................... 44
Sources of Credit ....................................................... 60
Southern California Administration ............................. 14
Special Programs ........................................................ 78
Special Study ............................................................ 53
Specialization in Accountancy ...................................... 119
Specialization in Accounting for Financial Executives .... 119
Specialization in Best Practices .................................... 139
Specialization in Criminalistics ................................... 123
Specialization in Educational Technology ...................... 139
Specialization in Electronic Business ........................... 120
Specialization in Financial Management ....................... 120
Specialization in Health Care Administration ............... 120
Specialization in Human Resources Management ........... 120
Specialization in International Business ....................... 121
Specialization in Investigation ..................................... 123
Specialization in Marketing ........................................ 121
Specialization in Public Finance ................................... 125
Specialization in Reading .......................................... 139
Specialization in Special Education ............................. 139
Specialization in Teaching and Learning ....................... 139
Specialization in Technology Management ................. 121
Stockton Academic Center ......................................... 15
Student Discipline .................................................... 49
Student Records ....................................................... 53
Student Relations Coordinator .................................... 48
Student Service Center ............................................. 24
Student Services ....................................................... 24
Students with Disabilities .......................................... 46

T

Teachers Using Technology Certificate ......................... 165
Time Limits for Transfer Credit .................................. 69
TOEFL, Test of English as a Foreign Language ............... 45
Transcript Evaluation ............................................... 45
Transcript Requests .................................................. 54
Transcript Requests of Other Institutions ....................... 44
Transfer Credit ........................................................ 60, 69
Transfer of Credits to Other Institutions ......................... 54
Tuition ................................................................. 20
Twenty Nine Palms Learning Center ............................. 14

U

Undergraduate Class Schedules .................................. 4
Undergraduate College at National University ............... 26
Undergraduate Degrees, Academic Information ............. 58
Undergraduate Degrees, General Information ................ 18
Undergraduate Degrees, School of Arts and Sciences ....... 78, 81
Undergraduate Degrees, School of Business and Information Management .................. 104, 107
Undergraduate Degrees, School of Engineering and Technology .................................. 168, 169
Unit Requirements .................................................... 63, 71
Unit Transfer Limit (Graduate) .................................... 69
University Administration .......................................... 1

V

V.A. Educational Benefits ............................................ 40
Chapter 30 (New G.I. Bill) .......................................... 40
Chapter 31 (Vocational Rehabilitation) ......................... 40
Chapter 32 (VEAP) .................................................... 40
Chapter 34 (G.I. Bill) .................................................. 40
Chapter 35 (Dependents Benefits) ............................... 40
Chapter 106 (Selected Reservists/National Guard) ........... 40
VEAP (Chapter 32) ..................................................... 40
Vocational Rehabilitation (Chapter 31) .......................... 40
## Index

### W

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Site</td>
<td>24</td>
</tr>
<tr>
<td>Withdrawal</td>
<td>46</td>
</tr>
<tr>
<td>Writing Across the Curriculum</td>
<td>23, 78</td>
</tr>
<tr>
<td>Writing Centers</td>
<td>25</td>
</tr>
</tbody>
</table>