Construction Management Technology

The initial review of accreditation requirements by the American Council on Construction Education (ACCE) during the 2006-07 academic cycle, coupled to the new 120-hour limit set by the state has prompted the faculty to make the following revisions to the program:

- A revised 4-year recommended course sequence totaling 120 hours has been developed.
- Name change from Construction Management Technology to Construction Management with attached Non-substantive degree plan change form.
- Change pre-requisites in the following courses:
  - CNST 1301
  - CNST 2341
  - CNST 3301
  - CNST 3331
  - CNST 4331
  - CNST 4372
- Change course content/level:
  - CNST 2361 CNST 1361
  - CNST 4305 CNST 3205
  - CNST 4311 CNST 3311
  - CNST 4312 CNST 3312
  - CNST 2365 CNST 4265
  - CNST 3402 CNST 4302
  - CNST 4381
  - CNST 3321 CNST 2321
  - CNST 4351 CNST 2351
  - CNST 4385 CNST 3185
- New courses:
  - CNST 3355 (lecture) and 3155 (lab) (replaces MECT3355/3155 due to content)
  - CNST 3351
  - CNST 4341
  - CNST 4190: 4290:4390

decrease by 5 hours
Non-substantive Program Name Change Request

Bachelor of Science
Construction Management

University of Houston Central Campus - College of Technology

I. Describe briefly the change request.

The request is to change the name of the Construction Management Technology major to Construction Management.

II. Provide a rational for the proposed change.

The proposed name change from Construction Management Technology to Construction Management describes the current program contents, more accurately. In addition, the proposed name is more common to the construction industry and it fits more suitably with the 60 Baccalaureate of Science programs accredited by the American Council for Construction Education (ACCE). The word “Technology” in the degree title leads employers to expect our graduates are Laboratory Technicians and CAD Operators instead of Construction Managers. The name change will help the program grow by attracting additional students and employers.

III. Include the assessment of its effect on the administrative unit(s) involved or the institution as a whole.

The administrative unit is already in place for the current Construction Management Technology program and the name change will not require additional administrative resources.

IV. Summarize implications for classes, distribution of personnel, availability of facilities, and availability of equipment.

The name change will have no impact on classes, personnel, facilities, or equipment.

V. Give information regarding any additional costs or savings.

There should be no direct change in either costs or savings. However, the new degree name should appeal to more students and employers and therefore it will result in increase in students’ enrolment and additional income to the college.

VI. Provide Library Staff's Assistance of Library Resources Necessary for the Proposal Program.

No additional library resources will be required. The M.D. Anderson Library currently maintains considerable holdings in the Construction Management area.
**UNIVERSITY OF HOUSTON CENTRAL CAMPUS**
**BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT TECHNOLOGY**

Display how proposed program(s) would appear on the Coordinating Board program inventory. Include Texas CIP code designation(s).

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**Bachelor of Science (major in Construction Management)**  
Relevant CIP – 15.1001.00 19

How would name(s) of program(s) appear on student diplomas?  
**Bachelor of Science**  
**Construction Management**

How would name(s) of programs(s) appear on student transcripts?  
**Bachelor of Science**  
**Construction Management**

Administrative unit(s) responsible for the program(s):  
**Engineering Technology Department in the College of Technology**  
**University of Houston**

Proposed date for implementation of program:  **Fall 2008**

Persons to be contacted for further information about proposed program(s)  
**Enrique Barbieri, Chair, Engineering Technology Department**  
Phone: 713 743-4073, e-mail ebarbieri@central.uh.edu

**Neil Eldin, Director, Construction Management Program, Engineering Technology Department**  
Phone: 713-743-1553, e-mail neldin@central.uh.edu

Signatures:

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**Campus Chief Executive Officer**  
**Date**

---

**System Chief Executive Officer**  
**Date**

**Governing Board approval date:**
Construction Management
Accredited Baccalaureate Programs

Alabama
Auburn University 1
Department of Building Science
College of Architecture, Design & Construction
Auburn, AL 36849-5315
Dr. John Murphy, Dept. Head

Arkansas
Arkansas State University 2
Del E. Webb School of Construction
College of Engineering & Applied Sciences
Temple, AR 72881-5064
Dr. James Earnest, Director

Arkansas
John Brown University 5
Department of Construction Management
Division of Engineering & Construction Management
Storm Springs, AR 72761
Professor Jim Caldwell, Dept. Head

California
California Polytechnic State University 6
Department of Construction Management
College of Architecture & Environmental Design
San Luis Obispo, CA 93407
Professor Allan Hauck, Dept. Head

California State University, Fresno 8
Construction Management Program
College of Engineering & Computer Science
Fresno, CA 93740-0094
Professor Hal Johnston, Interim Prog Coordinator

Colorado
Colorado State University 10
Dept of Construction Management
College of Applied Human Sciences
Fort Collins, CO 80523
Dr. Mostafa Khatami, Associate Dept Head

Connecticut
Central Connecticut State University 11
Dept of Manufacturing & Construction Management
School of Technology
New Britain, CT 06050
Dr. Jacob Kovel, Program Coordinator

Florida
Florida International University 12
Department of Construction Management
College of Engineering & Computing
Miami, FL 33174
Dr. Hisham Ahmed, PE, Program Chair

University of North Florida 14
Dept of Building Construction Management
College of Computing, Engineering, & Construction
Jacksonville, FL 32224-2345
Dr. Mag Malek, Chair

Georgia
Georgia Institute of Technology 16
Construction Management Program
College of Architecture
Atlanta, GA 30332-0600
Dr. Rooben Kangas, Director

Southern Polytechnic State University 17
Construction Management Department
School of Architecture, Civil Engineering Technology & Construction
1100 South Marietta Parkway
Marietta, GA 30060-2890
Dr. Kheld Siddiq, Department Chair

Idaho
Boise State University 18
Construction Management Program
Department of Construction Management
Boise, ID 83725
Dr. Rebecca Misky, Chair

Illinois
Bradley University 19
Department of Civil Engineering & Construction
College of Engineering & Technology
Peoria, IL 61625
Dr. Amr Ali-Khlef, Chairman

Southern Illinois University, Edwardsville 21
Construction Management Program
Department of Construction
Edwardsville, IL 62026-1808
Professor Diane Kay Slattery, Dept. Chair

Northern Arizona University 3
Construction Management Program
College of Engineering & Natural Sciences
Flagstaff, AZ 86011
Dr. Thomas Rogers, Program Chair

University of Arkansas, Little Rock 4
Construction Management Program
Donaghey College of Information, Science & Systems Engineering
Little Rock, AR 72204-1000
Professor Michael Tranell, Program Coordinator

California State University, Chico 7
Department of Construction Management
College of Engineering, Computer Science, & Construction Management
Chico, CA 95929-0925
Professor Lori A. Brown, Department Chair

California State University, Sacramento 9
Construction Management Program
Department of Civil Engineering
Sacramento, CA 95819-6039
Professor Keith Bhanare, Program Coordinator

University of Florida 13
Miller Center, Sr. School of Building Construction
College of Design, Construction & Planning
Gainesville, FL 32611-5703
Dr. Abdal L. Chis, Program Director

Georgia Southern University 10
Building Construction & Contracting
Allan E. Paulson College of Science & Technology
Statesboro, GA 30460-5047
Dr. Brian Moore, Chair

Illinois State University 20
Construction Management Program
Department of Technology
Normal, IL 61761-3100
Dr. Richard A. Bower, Program Coordinator
<table>
<thead>
<tr>
<th>State</th>
<th>University</th>
<th>Department</th>
<th>Building/Program/Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indiana</td>
<td>Purdue University</td>
<td>Building Construction Management</td>
<td>West Lafayette, IN 47907-1414, Dr. Robert Cox, Dept Head</td>
</tr>
<tr>
<td>Kansas</td>
<td>Kansas State University</td>
<td>Dept of Architectural Engineering &amp; Construction Science</td>
<td>Manhattan, KS 66000, Professor David R. Fritchen, Dept Head</td>
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<tr>
<td>Kentucky</td>
<td>Eastern Kentucky University</td>
<td>Construction Technology Program</td>
<td>Richmond, KY 40375-3115, Professor John Stratman, Program Coordinator</td>
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<tr>
<td>Louisiana</td>
<td>Louisiana State University</td>
<td>Construction Management &amp; Industrial Engineering</td>
<td>Baton Rouge, LA 70802-6419, Dr. Thomas G. Ray, Program Chair</td>
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<tr>
<td>Maryland</td>
<td>University of Maryland</td>
<td>Construction Management Technology</td>
<td>Prince Anne, MD 21553, Dr. Leon L. Copeland, Chairman</td>
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<tr>
<td>Massachusetts</td>
<td>Wentworth Institute of Technology</td>
<td>Construction Management Program</td>
<td>Boston, MA 02115, Dr. Craig Capasso, Dept Head</td>
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<tr>
<td>Michigan</td>
<td>Eastern Michigan University</td>
<td>Construction Management Program</td>
<td>Ypsilanti, MI 48197, Dr. William A. Morey, Program Coordinator</td>
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<tr>
<td>Michigan</td>
<td>Michigan State University</td>
<td>Construction Management Program</td>
<td>East Lansing, MI 48824-1323, Dr. Robert von Burreth, Program Director</td>
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<td>Minnesota</td>
<td>Minnesota State University</td>
<td>Construction Management</td>
<td>Moorhead, MN 55703, Professor Scott C. Stellwell, Coordinator</td>
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<td>Mississippi</td>
<td>University of Southern Mississippi</td>
<td>School of Construction</td>
<td>Hattiesburg, MS 39406, Professor Desmond Fletcher, Director</td>
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<tr>
<td>Missouri</td>
<td>University of Central Missouri</td>
<td>Construction Management Program</td>
<td>Warrensburg, Missouri 65356, Dr. John Butz, Program Chair</td>
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<td>Nebraska</td>
<td>University of Nebraska</td>
<td>Construction Management Program</td>
<td>Lincoln, NE 68588-0550, Dr. Charles W. Bentlyman, Program Chair</td>
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<tr>
<td>Nevada</td>
<td>University of Nevada</td>
<td>Construction Management</td>
<td>Las Vegas, NV 89154-4615, Dr. David R. Shields, Program Director</td>
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<tr>
<td>New Mexico</td>
<td>University of New Mexico</td>
<td>Construction Management</td>
<td>Albuquerque, NM 87131-1351, Dr. Jerald L. Rounds, Program Chair</td>
</tr>
<tr>
<td>New York</td>
<td>Alfred State College</td>
<td>Construction Management</td>
<td>Alfred, NY 14802, Program Chair</td>
</tr>
</tbody>
</table>
North Carolina
East Carolina University 42
Department of Construction Management
College of Technology & Computer Science
Greenville, NC 27834-4839
Dr. Douglas Knight, Program Chairman

North Dakota
North Dakota State University 44
Construction Management & Engineering
Department of Civil Engineering & Construction
Fargo, ND 58105
Dr. Charles Mortons, Program Coordinator

Ohio
Bowling Green State University 45
Construction Management & Technology
Department of Technology Systems
Bowling Green, OH 43403-0304
Professor Travis Chappell, Interim Coordinator

Oklahoma
University of Oklahoma 47
Construction Science Program
College of Architecture
Norman, OK 73019-3265
Professor Ken Robson, Program Director

Oregon
Oregon State University 48
Construction Engineering Management Program
Dept of Civil, Construction & Environmental Engineering
Corvallis, OR 97331-2202
Dr. David E. Rogge, Program Coordinator

Rhode Island
Roger Williams University 49
Construction Management Program
School of Engineering, Computing, & Construction Management
Providence, RI 02919-2201
Professor Frederick Gould, Program Director

South Carolina
Clemson University 50
Department of Construction Science & Management
School of Design & Construction
Clemson, SC 29634-0507
Professor Raymond Schnitter, Chair

South Dakota
South Dakota State University 51
Construction Management Program
Engineering Technology & Management
Brookings, SD 57007
Professor Pat Penwell, Program Coordinator

Texas
Texas A & M University 52
Department of Construction Science
College of Architecture
College Station, TX 77843-3137
Professor Joe Heflin, Dept Head

Utah
Brigham Young University 53
Construction Management
School of Technology
Provo, UT 84602
Dr. Jay Neela, Program Chair

Virginia
Virginia Polytechnic Institute & State University 55
Department of Building Construction
College of Architecture, K. Urban Studies
Blacksburg, VA 24061-1150
Dr. Yan J. Behnese, Dept Head

Washington
University of Washington 57
Department of Construction Management
College of Architecture & Urban Planning
Seattle, WA 98115-1910
Dr. John Schnellbohrer, Department Chair

Wisconsin
Milwaukee School of Engineering 59
Construction Management Program
Dept of Architectural Engineering & Building Construction
Milwaukee, WI 53203-5109
Professor Michael Emmer, Program Director

University of Wisconsin-Milwaukee 60
Construction Program
College of Technology, Engineering & Management
Menomonee, WI 53471
Professor Mitch Spieweck, Program Director
University Core Curriculum
42 semester hours

Communication (6 semester hours)
ENGL 1303, English Composition I
ENGL 1304, English Composition II
or
TELS 3372, Communicating Science,
Engineering, and Technology Issues and
Trends Within the Global Workplace

History (6 semester hours)
HIST 1377, 1378

American Government (6 semester hours)
POLS 1336, 1337

Social and Behavioral Sciences (6 semester hours)
See individual degree plans

Humanities (3 semester hours)
Three semester hours selected from
core approved list

Visual/Performing Arts (3 semester hours)
Three semester hours selected from
core approved list

Mathematics
(6 semester hours)
See individual degree plans

Natural Sciences (6 semester hours)
see individual degree plans

Construction Management (CMT)

This program includes topics directed towards managing construction projects,
interpreting codes and specifications, administering contracts, estimating costs, and
scheduling project activities.
The objective of the Construction Management program is to provide graduates with knowledge and skills that are valued and sought by the construction industry profession. Commercial, residential, industrial, and highway/heavy sectors of the construction industry need entry-level professional employees who are knowledgeable and skilled. Graduates must have knowledge of construction materials and methods, structural systems, soils, site development, surveying, and contract administration; be capable of interpreting codes, plans, and specifications; and have skills for planning, estimating, scheduling, and evaluating project performance. The program's curriculum provides fundamental and advanced coursework that incorporate current standards and technology for managing and providing quality construction. Software is applied in curriculum courses to prepare students for careers that require a knowledge of computer estimating and scheduling.

Construction Management graduates should have knowledge and problem-solving skills to:

1. Determine costs for construction activities and projects, establish construction schedules, and apply time value of money concepts for evaluation of alternatives;
2. Evaluate project schedule and cost performance;
3. Interpret construction material properties and standards;
4. Produce and interpret drawings; interpret codes for concrete, steel, and timber construction;
5. Apply design concepts for site development (soils and foundations, water distribution, waste-water collection, and storm-water drainage); and
6. Perform managerial functions.

The program is committed to attaining the following goals:

- Provide a career-oriented program that prepares students for productive and professional employment in the construction industry.

- Emphasize inclusion of recent technological advancements into the technology/construction management curriculum in the areas of management, scheduling, estimating, cost-control, and other construction courses.

- Provide a learning environment where students apply state-of-the-art technological equipment and software.

- Prepare graduates to pursue graduate degrees and life-long education. Provide students with an opportunity to prepare for entry into the Master of Technology in Construction Management Technology program.
At the Master of Technology level, students will receive advanced education, preparing them to be construction management leaders in industry or faculty members in colleges and universities. For more information on the graduate program, please refer to the Graduate and Professional Studies catalog.

Majors in Construction Management may use no grade below C- in junior and senior level courses to satisfy major degree requirements.

Students pursuing a major in Construction Management must complete the following requirements in addition to the university core and general college requirements.

### Construction Management Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ACCT 2331</td>
<td>Accounting Principles I - Financial</td>
</tr>
<tr>
<td>CNST 1301</td>
<td>Construction Materials and Methods</td>
</tr>
<tr>
<td>CNST 1361</td>
<td>Construction Management I</td>
</tr>
<tr>
<td>CNST 2321</td>
<td>Mechanical and Electrical Systems</td>
</tr>
<tr>
<td>CNST 2341</td>
<td>Construction Documents</td>
</tr>
<tr>
<td>CNST 2351</td>
<td>Construction Estimating I</td>
</tr>
<tr>
<td>CNST 3185</td>
<td>Construction Experience</td>
</tr>
<tr>
<td>CNST 3205</td>
<td>Construction Safety Management</td>
</tr>
<tr>
<td>CNST 3301</td>
<td>Construction Equipment and Methods</td>
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<tr>
<td>CNST 3311</td>
<td>Structural Steel and Timber Construction</td>
</tr>
<tr>
<td>CNST 3312</td>
<td>Project Finance &amp; Economics</td>
</tr>
<tr>
<td>CNST 3331</td>
<td>Construction Planning and Scheduling</td>
</tr>
<tr>
<td>CNST 3351</td>
<td>Construction Estimating II</td>
</tr>
<tr>
<td>CNST 3355</td>
<td>Construction Materials &amp; Testing</td>
</tr>
<tr>
<td>CNST 3155</td>
<td>Construction Materials &amp; Testing Lab</td>
</tr>
<tr>
<td>CNST 4265</td>
<td>Site Development &amp; Environmental Issues</td>
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<tr>
<td>CNST 4302</td>
<td>Construction Law &amp; Ethics</td>
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<td>CNST 4331</td>
<td>Construction Management II</td>
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<td>CNST 4341</td>
<td>Project Controls</td>
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<tr>
<td>CNST 4372</td>
<td>Soil Mechanics and Foundations</td>
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<td>CNST 4381</td>
<td>Reinforced Concrete &amp; Building Codes</td>
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<tr>
<td>CNST 4290</td>
<td>Current Issues in Construction</td>
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<tr>
<td>MECT 2354</td>
<td>Introductions to Mechanics</td>
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<tr>
<td>SURY 2361</td>
<td>Surveying I</td>
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</tbody>
</table>
Program Requirements
Math/Reasoning (13 SH which includes university core)
MATH 1313. Finite Mathematics with Applications
MATH 1330. Precalculus
MATH 1431. Calculus I
TMTH 3360. Applied Technical Statistics
Natural Sciences (6 SH which includes university core)
PHYS 1301. Introductory General Physics I
PHYS 1302. Introductory General Physics I
 or
GEOL 1330. Physical Geology
General Technology and College Core (6 SH)
CNST 1330. Graphics I
TELS 3363. Technical Communication
Social/Behavioral Sciences
(3 SH which includes university core)
ECON 2304. Microeconomics
 or
ECON 2305. Macroeconomics
Writing in the Discipline
(3 SH which includes university core)
GENB 4350 Business Law & Ethics

Degree awarded: Bachelor of Science
Major: Construction Management
CONSTRUCTION MANAGEMENT (CMT) 

UNIVERSITY of HOUSTON
COLLEGE OF TECHNOLOGY

Name

UNIVERSITY CORE REQUIREMENTS (46 SH)

<table>
<thead>
<tr>
<th>Course</th>
<th>GR</th>
<th>SH</th>
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<tbody>
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<td>Communication (6 SH)</td>
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<tr>
<td>ENGL 1303 English Composition I</td>
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<td>ENGL 1304 English Composition II</td>
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<td>Writing in the Discipline* (3 SH)</td>
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<td>ENR 4350 Business Law &amp; Ethics</td>
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<td>History/Government (12 SH)</td>
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<td>HIST 1377 US History to 1867</td>
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<td>HIST 1378 US History since 1867</td>
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<td>OLS 1336 US &amp; TX Const/Politics</td>
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<td>OLS 1337 US Government</td>
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<td>Humanities* (3 SH)</td>
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<td>Social/Performing Arts* (3 SH)</td>
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<tr>
<td>Social/Behavioral Sciences* (3 SH)</td>
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<tr>
<td>CON 2304 Micro or ECON 2305 Macro</td>
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<tr>
<td>Math/Reasoning (13 SH)</td>
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<tr>
<td>MATH 1313 Finite Math w/ Applications</td>
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<tr>
<td>MATH 1330 Precalculus</td>
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<tr>
<td>MTH 3360 Applied Tech Statistics</td>
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<td>Natural Sciences (6 SH)</td>
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<tr>
<td>HYS 1301 Intro. Gen. Phys I</td>
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<tr>
<td>HYS 1302 Intro. Gen. Phys II</td>
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<tr>
<td>Or GEOL 1330 Physical Geology</td>
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DEPARTMENTAL & COLLEGE REQUIREMENTS

General Technology and College Core (6 SH)

<table>
<thead>
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<th>Course</th>
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<td>NST 1330 Graphics I</td>
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<tr>
<td>ELS 3363 Technical Comm.</td>
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</table>

5 advanced (3000- or 4000-level) semester hours must be completed.

For graduation with Honors, see Undergraduate Catalog.

Refer to class schedule for lists of courses that satisfy University requirements.

Major Requirements (65 SH)

<table>
<thead>
<tr>
<th>Course</th>
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<td>CNST 1301 Construction Mat. &amp; Methods</td>
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<td>CNST 1361 Construction Management I</td>
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<td>CNST 2321 Mech. &amp; Electrical Systems</td>
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<td>CNST 2341 Construction Documents</td>
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<td>CNST 2351 Construction Estimating I</td>
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<td>CNST 3185 Construction Experience</td>
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<td>CNST 3205 Cnst. Safety Management</td>
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<td>CNST 3301 Cnst. Equip. &amp; Methods</td>
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<td>CNST 3311 Structural Steel &amp; Timber Constr</td>
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<td>CNST 3312 Project Finance &amp; Economics</td>
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<td>CNST 3331 Cnst. Planning &amp; Sched.</td>
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<td>CNST 3351 Construction Estimating II</td>
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<td>CNST 3355 Cnst. Materials &amp; Testing</td>
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<td>CNST 3155 Construction Mat. &amp; Test Lab</td>
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<td>CNST 4331 Construction Management II</td>
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<td>CNST 4341 Project Controls</td>
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<td>MECT 2354 Intro to Mechanics</td>
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<tr>
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Total hours required: 120 semester hours

APPROVALS:

Student Date

Advisor Date

Department Chair Date

Fall 2008 Proposed
**UNIVERSITY CORE REQUIREMENTS (51 SH)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>POLS 1337</td>
<td>US Government</td>
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**Humanities* (3 SH)**

**Visual/Performing Arts* (3 SH)**

**Social/Behavioral Sciences* (3 SH)**

<table>
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<tr>
<th>Course Code</th>
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<tr>
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<td>Micro gr ECON 2305 Macro</td>
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**Math/Reasoning, Writing Intensive* (3 SH)**

**Departmental & College Requirements**

**General Technology and College Core (12 SH)**

<table>
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<tr>
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<td>TELS 3340</td>
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<td>TELS 3343</td>
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<td>TELS 3363</td>
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<td>TEC 1301</td>
<td>Intro to Computer Apps Tech</td>
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*6 advanced (3000- or 4000-level) semester hours must be completed.

**MAJOR REQUIREMENTS (60 SH)**

<table>
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<td>MECT 2354</td>
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<td>MECT 3155</td>
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**Business & Management Electives (Select 3 SH minimum)**

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<tr>
<td>TELS 3365</td>
<td>Team Leadership</td>
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</table>

© No grade lower than C- will be accepted for courses taken after Summer 2007.

Total hours required: 126 semester hours

For graduation with Honors, see Undergraduate Catalog.

*Refer to class schedule for lists of courses that satisfy University requirements.

**APPROVALS:**

Student ___________________________ Date __________

Advisor ___________________________ Date __________

Department Chair __________________ Date __________

Fall 2007