

RECEIVED OCT 13 2006

APPROVED MAR 21 2007

Memo

To: Undergraduate Council
From: Hassan Moghaddam
 Instructional Professor Construction Management/Surveying and Mapping
Date: 10/12/2006
Re: Changes to Construction Management Technology/Surveying and Mapping Degree plan

Change title of degree plan from Construction Management Technology/Surveying and Mapping to Surveying Engineering Technology. (See attached non substantive program name change form.)

Change rubric (identifier from CNST to SURY to reflect change in focus from Construction Management to Surveying

Course Changes:	New Courses	Existing:	Proposed:	Changes
	SURY 2371	CNST 2461	SURY 2461	Rubric
	SURY 2372	CNST 3362	SURY 3462	Add one hr
	SURY 3373	CNST 3363	SURY 3363	Rubric
	SURY 3205	CNST 4363	SURY 4363	Rubric
	SURY 3342	CNST 4364	SURY 4364	Rubric
	SURY 4397	CNST 4369	SURY 4369	Rubric
	SURY 4198	CNST 3161	SURY 4361	Rubric, Add 2 hrs.
	SURY 4398			

Degree Plan Changes;

Change Math requirement from:

TMTH 3360

To: MATH 1432 or TMTH 3360

Add:

TELS 4372

(3 hrs.) Free Elective

SURY 3205

SURY 4170

SURY 3342

SURY 4361

(9 hrs.) Technical Elective

Drop:

CNST 1301

CNST 3331

CNST 4305

CNST 4312

CNST 4351

CNST 3161 Changes to SURY 4361

MECT 2354

MECT 3355

MECT 3155

TELS 2360

No Changes to minors.

No effect on other College programs

No substantive Program Name Change Request

**Bachelor of Science in
Surveying Engineering Technology**

University of Houston Central Campus - College of Technology

I. I. Describe briefly the change request.

The College of Technology and the Engineering Technology Department respectfully request a change in the name of the Bachelor of Science in – Construction Management Technology/Surveying and Mapping to Bachelor of Science in – Surveying Engineering Technology

II. II. Provide a rational for the proposed change.

The Construction Management Technology/Surveying and Mapping program has been offered for a number of years as an option within the Construction Management area. The Department believes that the program name change will make marketing of the program easier resulting in increased enrollment. Also, student confusion with Engineering programs bearing a "Construction Management" title will be eliminated. The proposed change will qualify the program for ABET accreditation. At present Construction Management program is applying for ACCE accreditation.

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

The change in name of the program and its related degree will not result in any increase in administrative burden.

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

Personnel and facilities are in place to instruct the various courses.

V. V. Give information regarding and additional costs or savings.

There will be no material change in costs associated with maintaining the program.

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

No extraordinary library resources are required. Existing M.D. Anderson Library databases, etc., are more than adequate to fulfill any undergraduate research material needs.

UNIVERSITY OF HOUSTON CENTRAL CAMPUS
BACHELOR OF SCIENCE in SURVEYING ENGINEERING TECHNOLOGY

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

Bachelor of Science, major in Surveying Engineering Technology
Relevant CIP - 15.1001.00 19

How would name(s) of program(s) appear on student diplomas?

Bachelor of Science
Surveying Engineering Technology

How would name(s) of programs(s) appear on student transcripts?

Bachelor of Science
Surveying Engineering Technology

Administrative unit(s) responsible for the program(s);

Engineering Technology Department
College of Technology
University of Houston

Proposed date for implementation of program:

August 2007

Persons to be contacted for further information about proposed program(s)

Hassan Moghaddam, Coordinator, Construction Management
Technology/Surveying and Mapping Program
713.743.7620, hmoghaddam@uh.edu

Enrique Barbieri, Chair, Engineering Technologies Department 713.743.4073,
EBarbieri@Central.UH.EDU 

Signatures:

Campus Chief Executive Officer

Date

System Chief Executive Officer

Date

Governing Board approval date:

Proposed Catalog Description

Surveying Engineering Technology (SET)

Instruction in Surveying Engineering Technology emphasizes theoretical principles as well as practical applications of advanced surveying and mapping techniques, related computational procedures, geodesy, map compilation, and photogrammetry.

Surveying Engineering Technology, in its broadest sense, includes making precise measurements of the earth's surface using sophisticated optical and electronic instruments, determining the boundaries between adjacent land-owners, working as a field engineer for a general contractor establishing the location of new construction, establishing transportation routes, and mapping the earth's surface.

The program is committed to attaining the following goals:

- Provide an educational experience that prepares the student for the challenges of the surveying and mapping profession.
- Employ state-of-the-art technologies in the surveying and mapping curriculum.
- Provide opportunities for the student to exhibit creativity, leadership and team-building abilities, cultural appreciation, and an understanding of global and social issues.
- Incorporate interdisciplinary concepts and problem-solving exercises in the program.
- Provide broad educational experience including communication skills, mathematics and basic sciences, and preparation for life-long learning.

Surveying Engineering Technology Requirements

ACCT 2331. Accounting Principles I - Financial

CNST 2341. Construction Documents

CNST 2361. Construction Management I

CNST 2365. Site Development

MECT 3341. Computer-Aided Drafting I

SURY 2461. Surveying I

SURY 3205. Surveying Safety

SURY 3342. Computer Aided Surveying

SURY 3462. Surveying II

SURY 3363. Surveying III

SURY 4361 Surveying Practicum

SURY 4363 Legal Aspects of Surveying

SURY 4364. Surveying IV

SURY 4369. Survey Analysis
SURY 4170 Ethics in Professional Surveying
TELS 4372. Proposal and Project Writing

Pre-approved Electives

(Select 9 SH minimum)

SURY 2371 Global Positioning Systems
SURY 3373 Subdivision Planning & Design
TELS 3345. Human Resources in Technology
TELS 3346. Wage and Salary Administration
GEOL 4331. Introduction to Geographic Information Systems
Free electives (3 semester hours)


Technology and Other Requirements

Math/Reasoning (13-14 SH which includes university core)
MATH 1310. College Algebra
MATH 1330. Precalculus
MATH 1431. Calculus I
MATH 1432. Calculus II or TMTH 3360. Applied Technical Statistics
Natural Sciences (8 SH which includes university core)
PHYS 1301/1101. Introductory General Physics I and Lab
GEOL 1330/1130. Physical Geology and Lab
General Technology and College Core (12 SH)
CNST 1330. Graphics I
TELS 3340. Organizational Leadership and Supervision *or*
HDCS 3300. Organizational Decisions in Technology
TELS 3363. Technical Communication *or*
TELS 3372. Communicating Science, Engineering, and Technology Issues and Trends
Within the Global Workplace
I TEC 1301. Introduction to Computer Application Technology

Social/Behavioral Sciences

(6 SH which includes university core)
ECON 2304. Microeconomics *or*
ECON 2305. Macroeconomics
3 hours core approved writing intensive social science

Degree awarded: Bachelor of Science
Major: Surveying Engineering Technology



Current Catalog Description

Construction Management Technology - Surveying and Mapping (CMT/SM)

Instruction in the surveying and mapping concentration emphasizes theoretical principles as well as practical applications of advanced surveying and mapping techniques, related computational procedures, geodesy, map compilation, and photogrammetry.

Surveying and Mapping, in its broadest sense, includes making precise measurements of the earth's surface using sophisticated optical and electronic instruments, determining the boundaries between adjacent land-owners, working as a field engineer for a general contractor establishing the location of new construction, establishing transportation routes, and mapping the earth's surface.

The program is committed to attaining the following goals:

- Provide an educational experience that prepares the student for the challenges of the surveying and mapping profession.
- Employ state-of-the-art technologies in the surveying and mapping curriculum.
- Provide opportunities for the student to exhibit creativity, leadership and team-building abilities, cultural appreciation, and an understanding of global and social issues.
- Incorporate interdisciplinary concepts and problem-solving exercises in the program.
- Provide broad educational experience including communication skills, mathematics and basic sciences, and preparation for life-long learning.

Construction Management Technology - Surveying and Mapping Requirements

ACCT 2331. Accounting Principles I - Financial
CNST 1301. Construction Materials and Methods
CNST 2341. Construction Documents
CNST 2361. Construction Management I
CNST 2365. Site Development
CNST 2461. Surveying I
CNST 3161. Surveying Practicum
CNST 3331. Construction Planning and Scheduling
CNST 3362. Surveying II
CNST 3363. Surveying III

CNST 4305. Construction Safety Management
CNST 4312. Construction Finance Management
CNST 4351. Construction Estimating
CNST 4363. Legal Aspects of Surveying
CNST 4364. Surveying IV
CNST 4369. Survey Analysis
TELS 2360. Business Law
MECT 2354. Introductions to Mechanics
Mect 3341. Computer-Aided Drafting I
MECT 3355. Strength of Materials
MECT 3155. Strength of Materials Lab

Technical Electives

(Select 3 SH minimum)

TELS 3345. Human Resources in Technology
TELS 3346. Wage and Salary Administration
TELS 4350. Industrial and Environmental Safety

Technology and Other Requirements

Math/Reasoning (13 SH which includes university core)

MATH 1310. College Algebra

MATH 1330. Precalculus

MATH 1431. Calculus I

TMTH 3360. Applied Technical Statistics

Natural Sciences (8 SH which includes university core)

PHYS 1301/1101. Introductory General Physics I and Lab

GEOL 1330/1130. Physical Geology and Lab

General Technology and College Core (12 SH)

CNST 1330. Graphics I

TELS 3340. Organizational Leadership and Supervision

or

HDCS 3300. Organizational Decisions in Technology

TELS 3363. Technical Communication

or

TELS 3372. Communicating Science, Engineering, and Technology Issues and Trends
Within the Global Workplace

ITEC 1301. Introduction to Computer Application Technology

Social/Behavioral Sciences

(6 SH which includes university core)

ECON 2304. Microeconomics

or

ECON 2305. Macroeconomics

3 hours core approved writing intensive social science

Degree awarded: Bachelor of Science in Technology- Surveying and Mapping

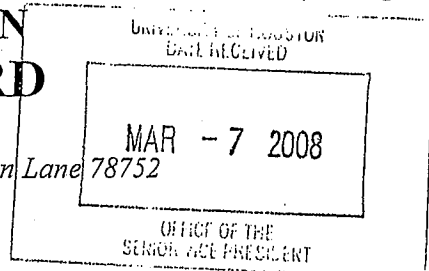
Major: Construction Management Technology



TEXAS HIGHER EDUCATION COORDINATING BOARD

Academic Affairs and Research
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3.016



Joseph H. Stafford, Ph.D.
Assistant Commissioner
Academic Affairs and Research
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March 3, 2008

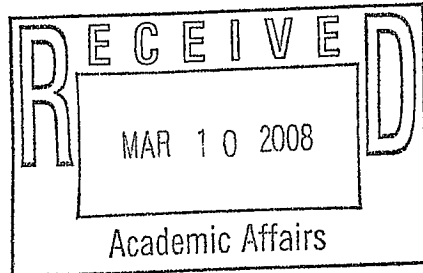
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Dr. Donald Foss
Sr. Vice President for Academic Affairs and Provost
University of Houston
214 E. Cullen Building
Houston, TX 77204-2019



Dear Dr. Foss:

I am pleased to approve at the staff level the request from University of Houston to change the name of the Bachelor of Science (BS) degree in Construction Management Technology-Surveying and Mapping to a Bachelor of Science (BS) degree in Surveying Engineering Technology.

Enclosed is an Information Sheet for your reporting official that reflects an implementation date of March 3, 2008.

Sincerely,

Kevin Lemoine
for Joseph H. Stafford

Enclosure

c: Chancellor/President Renu Khator

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INFORMATION SHEET

The following information is provided in connection with recent action(s) taken by the Texas Higher Education Coordinating Board and reported to your institution in a letter from Joseph H. Stafford dated March 3, 2008.

ACTION: UNIVERSITY OF HOUSTON

On March 3, 2008, the Coordinating Board approved at the staff level the request from the University of Houston to change the name of the Bachelor of Science (BS) degree in Construction Management Technology-Surveying and Mapping to a Bachelor of Science (BS) degree in Surveying Engineering Technology.

Administrative Unit Affected:	Academic Unit #	Action	Effective Date
Department of Engineering Technology	0980	Phase out and create programs	March 3, 2008
Program Affected:	CIP Code	Action	Effective Date
BS in Construction Management Technology-Surveying and Mapping	15.1102.00	Phase out program	March 2, 2008
BS in Surveying Engineering Technology	15.1102.00	Create program	March 3, 2008

Notes:

These changes will affect the way your institution reports courses, programs, and degrees to the Coordinating Board. Please inform the appropriate reporting personnel of these changes.

If you have any questions about this action or about your institution's program inventory, please contact:

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