CURRICULUM GUIDE & CURRICULUM OPTIONS FOR UNDERGRADUATES

This guide is offered as a supplement to the Official University Bulletin. The Guide contains the latest, most relevant and applicable curriculum information for the pre-Civil Engineering student and for those students who are currently enrolled as majors in Civil and Environmental Engineering within the Department of Civil and Environmental Engineering and Geodetic Science. It outlines the prerequisites in each area of specialization, the general course requirements for the BS degree in Civil Engineering, and describes the core program that must be followed to permit proper course sequencing.

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- Activate your OSU e-mail account. Only your OSU e-mail address is used in our list serve.
- Check your e-mail regularly for updates and course schedule changes.
- Check your mailbox in Bolz 435 (Student Lounge)
- Print a copy of the Undergraduate Handbook at the beginning of every year. There are always minor changes to the Curriculum Guide every year.

CURRICULUM GUIDE & CURRICULUM OPTIONS FOR UNDERGRADUATES – Revised SP09

ADMISSION POLICY

1. **Criteria for Acceptance**

The Pre-Civil Engineering Core courses are normally taken in the Freshman year. Students will be enrolled in the pre-Civil category and will be advised by the Civil Engineering Academic Advisor. Students must complete all of the courses in this group with a Point Hour Ratio (PHR) of at least 2.0*, based on all grades earned in all attempts of courses in this group, and must have attained a minimum Cumulative Point Hour Ratio (CPHR) of 2.0 at Ohio State (and also other universities/colleges for transfer students) before they are eligible to apply to become Civil Engineering (105) majors and proceed with their Civil Engineering curriculum.

Pre-Civil Engineering Core: Phys 131, 132, 133; Math 151(Math 140,141), 152, 153, 254; ENG 181 and 183, EG 167, CSE 202 or Eng 294P; ME 410/H210; Chemistry 121. In addition, students should successfully complete English 110 and ENG/USS Survey 100 course. ENG Survey 100 course is waived for students transferring from another four year college.

Please see Laëtitia (475 HI) if you have credit or transfer credit for EG 166.

2. **Exceptions for Under-Represented Groups**

Special consideration for admission will be given to members of groups under-represented in Civil Engineering.

3. **Transfer Students**

Domestic transfer students seeking direct admission into a major of the College of Engineering must meet the same individual requirements as students transferring from within the Ohio State University (see 1. above). Additionally, there will be an evaluation of the student's former curriculum by the College of Engineering and by the Department. Students transferring from institutions lacking regional accreditation must have a minimum CPHR of 2.8 on a 4.0 scale.

The Civil Engineering Transfer Credit Coordinator monitors the evaluation of transfer credit. The sequence in which transfer credit is evaluated coincides with the sequence in which the courses appear in the curriculum. The Transfer Credit Coordinator will designate which courses are to be evaluated and will determine the faculty member who is to perform the evaluation. *Transfer courses are not equivalent to OSU courses unless the prerequisites are substantially equivalent.* The awarding of transfer credit from foreign, non-ABET, or non-CAB accredited institutions normally will be by examination in the Department of Civil and Environmental Engineering and Geodetic Science.

*All Point Hour Ratios including Cumulative Point Hour Ratio (CPHR), Secondary Point Hour Ratio (SPHR), and Civil Engineering Point Hour Ratio (CEPHR), will be calculated in accordance with University Policy for graduation (Rule 3335-8-30 of the Administrative Code) which states that "(students must) have earned credit points totaling at least twice the number of credit hours attempted at this university for which calculable grades were given." All Point Hour Ratios will be truncated to the hundredth and will not be rounded up.

ACADEMIC ADVISING

Entry into major. Students may enter the BSCE major in **autumn** or **spring** quarters by submitting an Application to Major packet to Laëtitia Bramoullé-Hirt, the Undergraduate Advisor, by the end the quarter prior to the quarter they desire to enter the major. Click here for *Application to Major* form. Students will meet with Laëtitia to submit the Application to Major which includes completion of a Course Projection Worksheet. A copy of the worksheet will be given to the student, and the original will be kept in their Departmental file. The student will also select a Tentative Major Option and be assigned a Faculty Advisor in that Option.

Orientation upon entering the major. Presentations will be made on the various Civil and Environmental Engineering Major Options in CE 460. Students will be informed about the Technical Communications Portfolio concept used to meet GEC and ABET communication skills requirement. The principles underlying the integrated design project, culminating in CE 660.01 and CE 660.02 Capstone Design, will also be introduced.

First quarter meeting with Faculty Advisor. During the **third week of the first quarter** that they are in the major, students will meet with their Faculty Advisor to discuss their academic and professional development in Civil or Environmental Engineering. At this meeting, the Faculty Advisor will also evaluate and sign the student's Course Projection Worksheet. The student will return the worksheet to Laëtitia. The registration windows will be locked for students who have not completed this form by the end of the third week of the quarter.

Second quarter meeting with Faculty Advisor. Students will have a meeting with their Faculty Advisor during the **third week of their second quarter** in the major. At this meeting, they will discuss the student's academic and professional progress, and the student will be assisted in evaluating their choice of a Major Option. If the student continues in the Major Option selected when entering the major, the student will keep the same Faculty Advisor. If, after further discussions with faculty members in other Major Options, the student decides to change Major Option, Laëtitia will assign the student a new Faculty Advisor in their permanent Major Option. In conjunction with their Faculty Advisor and prior to the end of their second quarter in the major, students will complete a Technical Elective Approval form. Click here for this form. The signed form must be submitted to Laëtitia by the third week of the second quarter in the major who will place it in the student's Departmental file. The student will also receive a copy.

Subsequent meetings with the Faculty Advisor. During subsequent quarters in the major, students will maintain appropriate contact with their Faculty Advisor. At a minimum, students must demonstrate that at least one additional meeting has been held.

Third Meeting with Faculty Advisor when applying to graduate. Three quarters in advance of graduation, students will complete the Application to Graduate forms. Click here for Application to Graduate form, instructions to complete the application, and deadlines to submit the application. ***Students must have their Faculty Advisor's signature on the Application to Graduate form before submitting to the Undergraduate Office in HI 475.*** Among other things, the student and Faculty Advisor will discuss professional aspirations after graduation and the importance of taking the Fundamentals of Engineering Exam. FE registration information is sent regularly by the College Office. Please pay attention to the FE/FS registration datelines!

Fourth Meeting with Faculty Advisor. Each student will have a follow up meeting with his/her Faculty Advisor the quarter prior to graduation and have the Advisor sign the copy of the Technical Elective Approval form that was submitted during the second quarter in the major.

Locked windows. Students are urged to meet all the deadlines described above. Students who do not meet these deadlines will have their registration windows locked, which could result in a loss of priority in scheduling classes for the next quarter.

SEQUENCING THROUGH THE PROGRAM

1. **Observance of pre-requisites.** Neither Civil Engineering pre-majors nor Civil Engineering majors may by-pass entry-level courses or core courses to take higher level Civil Engineering courses. All Civil Engineering courses must be taken in the order indicated by prerequisites. Pre-requisites in Civil Engineering are strictly enforced, and students will be unable to enroll in courses for which they do not have the pre-requisites.

2. **Pre-Civil Engineering courses.** For the first year and part of the second year, you will be in Pre-Civil Engineering. You will closely follow the first part of the curriculum Flow Diagram. Your advisor will be Laëtitia Bramoullé-Hirt, the Civil Engineering Academic Advisor.

3. **Entering the major.** You will enter the major after successfully completing the Pre-Civil Engineering requirements (Physics 131, 132, 133; Math 151(140,141), 152, 153, 254; ENG 181and 183, EG 167, CSE 202 or ENG 294P, ME 410/H210; Chem 121) and achieving an SPHR of 2.0 and a CPHR of 2.0. Please see Laëtitia (475 HI) if you have credit or transfer credit for EG 166. Before taking any Civil Engineering classes, you will fill out an *Application for Admission to the Civil Engineering Major* form. Click here to download this form and submit it to the Civil Engineering Academic Advisor. You will be notified by mail of the Department's action. You will remain with your Civil Engineering Academic Advisor until you select a Professional Major Option and complete the Undergraduate Technical Elective Approval form. Click here for this form. At that time you will be assigned to a Civil Engineering Faculty Advisor.

   Students are admitted to the Civil Engineering Major every Autumn and Spring. Click here for an Application to Major. Applications to Major are submitted in winter for spring entry and in spring for autumn entry.

4. **Choosing a major option.** By your second quarter in the major you should decide upon a major option and go to the designated Faculty Advisor for the major option that you chose. In conjunction with the Faculty Advisor, you will fill out a *Civil Engineering Undergraduate Technical Option Approval* form. Click here for this form. Obtain your Faculty Advisor's approval signature on this form and return it to the Civil Engineering Undergraduate Office.

5. **Preparing to graduate.** Prior to your Senior year, run a Degree Audit (available on the Buckeye Link) to make certain that you have met your General Education Curriculum (GEC) requirements and Civil Engineering major courses. Click here to run a degree audit. If you wish to petition for courses that are not on the list of College of Engineering Approved General Education Curriculum, you must submit a *General Petition Form*. The petition should be submitted as soon as the non-conforming course is known, and before the course is taken. Any course taken at another university which the student wants counted for GEC credit at OSU also requires a General Petition Form. The Petition Forms are submitted to the Civil Engineering Undergraduate Committee with supporting documents. The College of Engineering has final authority to approve or disapprove these petitions. Allow plenty of time for these petitions because several steps are required in the approval process. Moreover, some of the committees that give these approvals only meet once a quarter.

6. **Applying to graduate.** Applications to Graduate are due **three** quarters before the quarter in which you expect to graduate. Click here for the *Application to Graduate.* This packet contains two forms:

   a. *Certification of Professional Courses and General Education Curriculum* form. Assuming that you have the Technical Option Approval form (from step 4) on file in the Civil Engineering Undergraduate Office and that you have taken GEC's that comply with College requirements or have filed a General Petition Form 1A for a non-standard program, the Civil Engineering Undergraduate Office staff will be able to endorse your Certification of Professional Courses and General Education Curriculum form.

b. *Application for Baccalaureate Degree* form. This form lists your proposed schedule for your final two quarters. When the College office processes this form, they also check to see that you will have met all degree requirements if you comply with your projected schedule for your last two quarters.

7. **Academic standards for graduation.** In addition to other requirements, the College of Engineering specifies that in order to graduate, students must maintain a 2.0 point-hour ratio in all credit hours taken in your department or academic area. For purposes of this rule, CEE designates these courses to be: ME 410/H210, ME 420, and ME 430; CE 400.01 and .03, 405, 406, 413, 431, 451, 516, 520, 535, 540, 554, 570, and 576; and all courses taken as Technical Elective Courses.

THE CURRICULUM

The curriculum leading to the BSCE degree consists of **202 quarter** hours of course work.
The Master Schedule of Classes and the current University Course Offering Bulletin are at: www.ureg.ohio-state.edu

Pre-CE Courses		Hrs	Qtr Offered
Mathematics			
151	Calculus & Analytic Geometry	5	Au,Wi,Sp,Su
152	Calculus & Analytic Geometry	5	Au,Wi,Sp,Su
153	Calculus & Analytic Geometry	5	Au,Wi,Sp,Su
254	Calculus & Analytic Geometry	5	Au,Wi,Sp,Su
255	Differential Equations & Applications (or Math 415)	5	Au,Wi,Sp,Su
Physics			
131	Introductory Physics: Particles and Motion	5	Au,Wi,Sp,Su
132	Introductory Physics: Electricity and Magnetism	5	Au,Wi,Sp,Su
Earth Sci	Earth Sciences 121	5	Au,Wi,Sp,Su
Chemistry			
121	Principles of Chemistry	5	Au,Wi,Sp,Su
122/125	Principles of Chemistry	4	Au,Wi,Sp
Intro to Eng			
181	Introduction to Engineering I	3	Au,Wi,Su
183	Introduction to Engineering II	3	Wi,Sp,Su
Eng Graph			
167	Engineering Graphics	4	Au,Wi,Sp
or 202	Computer Science and Engineering	4	Au, Wi, Sp, Su
or 294 P	Computer Science and Engineering: Matlab course	4	Wi,Su
Mech Eng			
410/H210	Statics	4	Au,Wi,Sp,Su
ENG 100		1	Au,Wi,Sp,Su
General Education Curriculum (GEC) (35 hours) Must include Economics 200			
Civil Engineering Core			
Mech Eng			
420	Strength of Materials	4	Au,Wi,Sp,Su
430	Dynamics	4	Au,Wi,Sp,Su
500	Engineering Thermal Sciences	4	Au,Wi,Sp
Civil Engineering			
400	Surveying & Measurements in Civil Engineering	4	Au, Sp
405	Observational Analysis (Stat)	4	Au, Sp
406	Numerical Methods in Civil Engineering	4	Wi
413	Fluid Mechanics	4	Au
431	Structural Engineering	3	Au, Wi
451	Materials Engineering	4	Au
460	Professional Aspects of Civil and Environmental Engineering	1	Wi, Sp
516	Water Resources Engineering	4	Wi
520	Design of Treatment Facilities	4	Sp
535**	Basic Reinforced Concrete Design	5	Wi,Sp
540	Civil Engineering Systems	4	Au
554	Geotechnical Engineering	4	Sp
570	Transportation Engineering & Analysis	4	Wi
576	Civil Engineering Economics & Planning	4	Wi
660.01	Capstone Design	3	Au,Wi,Sp
660.02	Capstone Design	3	Au,Wi, Sp
or 619	Environmental Capstone Design (Env specialty only)	4	Sp
	Technical Electives (28 hrs)		
	About 7 courses, as per your specialty selection		

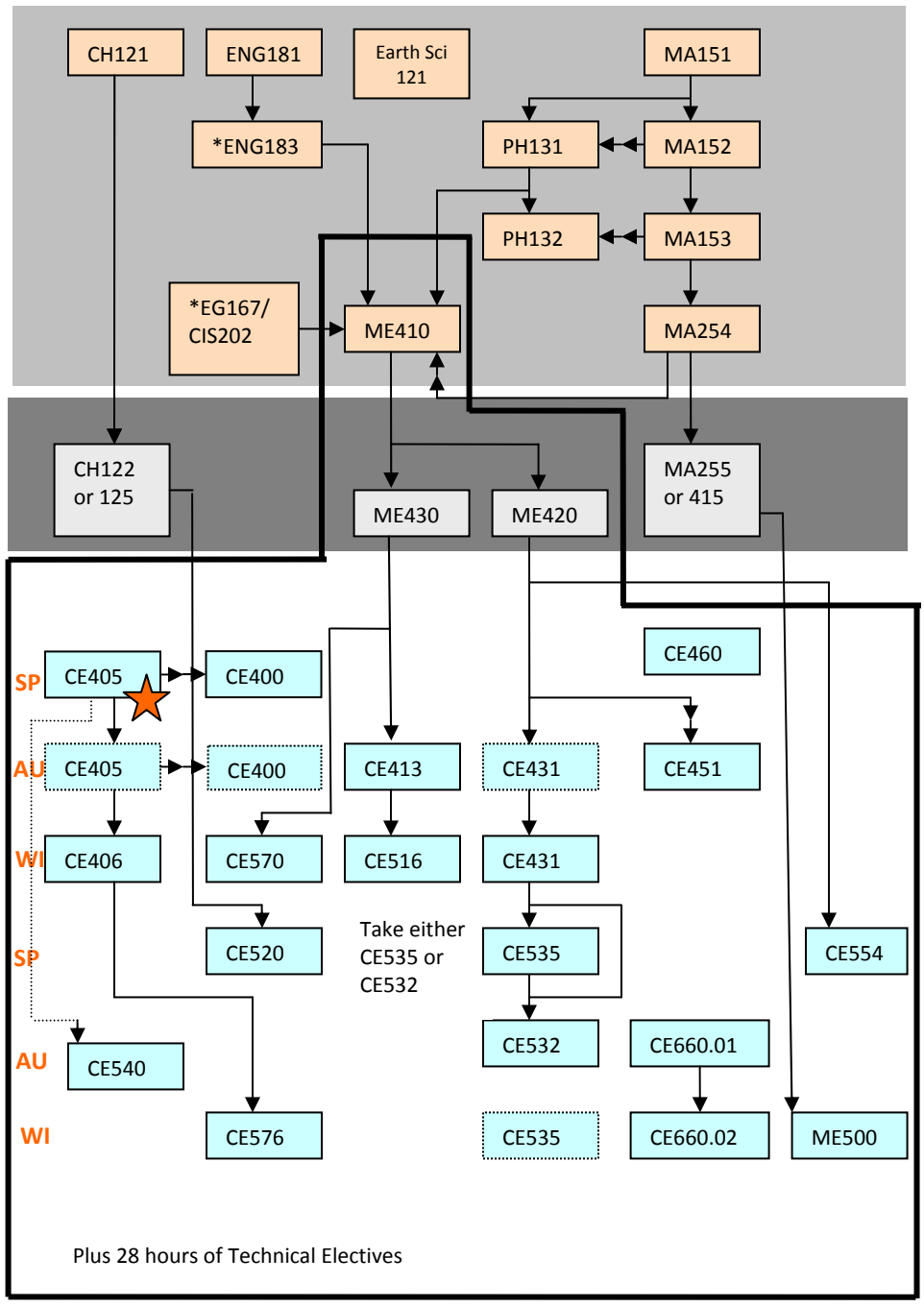
* English 110 must be completed prior to applying to the Civil Major.

** Choosing CE 532 or CE 535. Students choosing CE 532 must take 29 hours of Technical Electives.

The total hours required for graduation is 202.

CIVIL ENGINEERING CURRICULUM FLOWCHART

(excludes professional courses (28 hrs) and GEC's)



Pre-Civil Engineering monitored courses (orange boxes)
Complete this course group. A minimum point hour ratio of at least 2.0 must be earned in this course group for admission to major. You must also have a 2.0 cumulative GPA and must have completed English 110 and ENG100. Courses in orange are offered AU, WI, SP, SU (except EG167).

*ENG183 and EG167 or CIS202 should be completed to enter the major. To schedule ME410 you should have completed either ENG183 or EG167 or CIS202.

Courses in gray boxes may be taken before or after entering the CE major.

Acceptance into Major:
Every Spring and Autumn.

Application to Major Deadline:
By end of Winter for Spring entry and by end of Spring for Autumn entry.

Civil Engineering Monitored Courses (within thick black outline) must be taken before taking technical electives.

A cumulative point hour ratio of at least 2.0 must be maintained in this course group. **Failure to do so will result in Special Action Probation.**

NOTE: Quarters in which courses are offered are listed on the left side of the diagram in red.

CE	=	Civil Eng
CH	=	Chemistry
EG	=	Eng Graphics
ENE	=	Env Eng
ENR	=	Env & Natural Res
MA	=	Math
ME	=	Mechanical Eng
PH	=	Physics

CE405 must be taken during the first quarter in the major
Prerequisite
Prerequisite or concurrent

*n Complete ME420 and ME430 before or soon after entering the major.
Non-structures majors may choose either CE532 or CE535. Students selecting CE532 will need 29 hours of technical electives.

Revised 2/20/09

MAJOR OPTIONS & TECHNICAL ELECTIVE COURSES

The required Technical Elective Courses are to be taken in the Junior and Senior years with the Civil Engineering Core as a background. Some of the Technical Elective Courses are required of all Civil Engineering majors. Other courses are unique to each student's program, yet must be chosen within certain constraints. The approved program includes the requirement that the student select a major area.

The courses must be chosen with the advice and approval of the designated Faculty Advisor in the major option area by the **second quarter** that the student is in the major. The names of available Faculty Advisors are listed in the area of specialization. The student's selection of a Technical Elective Courses package and the Faculty Advisor's approval of this package are documented by completing the *Undergraduate Technical Elective Approval* form. The student is to return the signed copy of this form to the Civil Engineering Academic Advisor for filing.

There are nine areas within Civil Engineering from which the major option can be selected: Honors, the Generalist, Construction, Environmental, Geotechnical, Hydraulic, Remote Sensing, Structural, and Transportation.

The Civil Engineering Core courses serve as a background to the technical electives, and they also constitute the pre-requisite chain leading to most technical electives. Therefore, students should schedule the core courses as early as possible, and they should complete those core courses leading to their major option technical electives no later than the end of their junior year.

Up to **6 hours of CE 590** may be used as Technical Electives.

Up to **4 hours of CE 693** may be used as Technical Electives with Undergraduate Studies Chair's approval. Additional hours of CE 693 may be included as part of Accelerated Bachelors/Masters programs.

HONORS PROGRAMS

ABET Accredited in either Civil or Environmental Engineering

DEPARTMENTAL HONORS OPTION

The Honors Option is limited to students having an overall CPHR of **3.4** or above and *maintaining a CPHR of 3.4 or above* throughout the remainder of their undergraduate program.

Honors students are required to take the regular Civil Engineering core, *but the Technical Electives may be designed by the student and his or her faculty advisor to fulfill the individual student's educational objectives*. A special project study could be included.

The Technical Advisor and the Honors Advisor must approve a coherent Technical Elective program. Deviations from approved programs require prior approval from these same individuals. No minimum number of credit hours in Civil Engineering courses or of Approved Technical Electives is specified.

COLLEGE OF ENGINEERING HONORS PROGRAM

Our program in Engineering consists basically of two parts:

1. Honors courses that students can take during their first two years, and
2. Research projects that may be done during their final two years leading to an honors thesis.

The Engineering Honors criteria for entering Freshmen students are that they must graduate in the upper 10% of their high school class and have an ACT composite of **29** or higher or a sum of the SAT mathematics and verbal scores of **1300** or higher. The student must then maintain a CPHR of **3.4** or higher to be considered an Engineering Honors student. The following opportunities are available to Engineering Honors Students:

1. **University Honors Residential Facility.** You may live in the University Honors Residential Center. About half of the students who are living there are Engineering Honors students.
2. **Preference in Scheduling.** Your schedules are given preference in the registration process.
3. **Enrolling in Honors Courses.** You can register for as many or as few honors courses as you desire.
4. **Doing Honors Research.** We encourage you to include work with a faculty member on some research during their Junior and Senior years.
5. **Applying for Undergraduate Research Scholarships.** The College of Engineering awards research scholarships every year to Honors Students who have written the best research proposals for Honors Research.
6. **Graduation with Distinction**. Any Engineering student who graduates with a CPHR of 3.4 or better and has written an Honors Thesis on Honors Research performed during the undergraduate program and has passed an Oral Exam will graduate "with distinction." This honor will be printed on the diploma and in the graduation program.

Honors students are also eligible to graduate "with honors in engineering." Please visit http://engineering.osu.edu/currentstudents/honors.php for more information

Honors Advisor: Dr. Halil Sezen (Sezen.1)

ACCELERATED BS/MS PROGRAM

ABET Accredited in Civil or Environmental Engineering

The accelerated BS/MS program is designed to help students who intend to earn both BSCE and MS degrees at Ohio State to accomplish their goal more quickly. *Normally, this program is reserved for students who qualify for the Honors Option*. Undertaking this program does not necessarily guarantee that the student will be accepted into the MS program. Rather, admission to the MS program must be sought through normal channels.

The principal benefit of the program is that it allows students to interweave the BS and MS programs somewhat and it allows students to get a head start on their thesis research. Nevertheless, the student who finishes the BS program and decides not go on to the MS program will have an educational background equivalent to (and in fact superior to) that of students following the normal BSCE route.

The principal tools for implementing the accelerated program are two: (1) the use of CE693 or H783 Individual Studies, and (2) the use of Senior Petitioning of courses for graduate credit. CE693 or H783 Individual Studies can be used by students who wish to pursue individualized research and/or study under a particular faculty member. *Normally, the Undergraduate Studies Committee accepts up to 4 hours of CE693 or H783 toward the Professional Elective package provided that this meets with the approval of the student's Faculty Advisor.*

Under the accelerated program, up to *12 hours* of CE693 or H783 can be applied toward the BSCE provided that at least 8 hours of courses normally applicable toward professional elective requirements are Senior Petitioned toward an MS degree. Senior Petitioning a course means that the student takes the course while an undergraduate, but that the credit for the courses is available to be applied toward a future graduate (in this case, MS) degree. Students should note that they must formally petition to Senior Petition courses BEFORE they take those courses.

The accelerated effect comes in two respects. First, the 8 hours of Senior petitioned courses taken during the Senior year reduce the number of hours of course work that the student needs to take after being admitted to the MS program. Second, the research and individual study done under CE693 or H783 will give the student a head start on his or her MS thesis research. Please note, however, that CE693 or H783 hours taken **CANNOT** be used to reduce the 9 hours of CE999 Research required for the MS degree.

Students wishing to undertake the Accelerated BS/MS program must apply for approval to the Undergraduate Studies Committee prior to undertaking the program.

Contact: Dr Patrick Fox (Fox.407)

TECHNICAL ELECTIVES FOR HONORS & ACCELERATED BACHELOR'S/MASTER'S PROGRAM

The Honors Option and Accelerated Bachelor's/Master's programs are available only to students who have an overall Cumulative Point Hour Ratio (CPHR) of 3.4 or above at the start of the sophomore year, and who maintain a CPHR of **3.4** or above throughout the remainder of their undergraduate program. Students wishing to participate in any of these programs are encouraged to meet with the Undergraduate Studies Chair before designing their programs. The Honors Advisor (currently Dr. Mishalani for Civil Engineering and Dr. Walker for Environmental Engineering) will serve as faculty class advisor for students participating in any of these programs.

Four options are available to students participating in this program:

(1) **Civil Engineering Honors Option.**
This program is designed to give academically qualified students the opportunity to custom design a program to meet their personal academic and career objectives. Students must choose a Civil Engineering Technical Area Advisor who teaches in the Departmental area of their principal interest. Programs formulated under this option require the approval of the Technical Area Advisor and the Civil Engineering Undergraduate Studies Committee***. The program of study cannot include more than 4 credit hours of CE 693 (Individual Studies).*** Students choosing this option should fill out *Undergraduate Technical Elective Approval Form and check Honors Option*.

(2) **Civil Engineering Honors Option in Conjunction with College of Engineering Honors Program.**
This program is designed to give academically qualified students the opportunity to custom design a program to meet their personal academic and career objectives, and to participate in the College of Engineering Honors Program leading to graduation with Distinction (See College Rules for Honors). Students choosing this option are required to undertake a research project that culminates in a research report defended orally by the student before a committee of two faculty members. One of the faculty members on the committee must be the Honors Advisor (Dr. Mishalani for Civil Engineering and Dr. Walker for Environmental Engineering), and another member of the committee must be a Civil Engineering Technical Area Advisor who teaches and performs research in an area related to the student's research topic. A maximum of 8 hours of CE H783 can be included in the program to accommodate the research project.

(3) **Accelerated Bachelor's/Master's Program.**
This program is designed to give academically qualified students the opportunity to custom design a program to meet their personal academic objectives, and to optimize the completion time for a Bachelor's/Master's degree program. The program does not require that the student proceed to a Master's degree, nor does it guarantee admission to the Master's degree program. Admission to the Master's degree program is entirely under the control of the Civil Engineering Graduate Studies Committee, currently chaired by Dr. Walker. Students who elect this option are allowed to take up to 12 hours of CE 693 (Individual Studies) provided that at least 4 hours of courses are Senior Petitioned. Students selecting this option must choose a Civil Engineering Technical Area Advisor who teaches and performs research in an area related to the student's research topic, and the student is required to undertake a research project that culminates in a research report approved by the Technical Area Advisor. The student should exercise care to make certain that the Senior Petitioned courses will apply towards the graduate program which they intend to enter upon completion of the BSCE degree. It should be noted that

a student participating in this option could upgrade to option (4) below by defending the research project report orally before a committee of three faculty members (see details below).

(4) **Accelerated Bachelor's/Master's Program in Conjunction with College of Engineering Honors Program.** This program is designed to give academically qualified students the opportunity to custom design a program to meet their personal academic objectives, to pursue the College of Engineering Honors Program, and to optimize the completion time for a Bachelor's/Master's degree program. The program does not require that the student proceed to a Master's degree, nor does it guarantee admission to the Master's degree program. Admission to the Master's degree program is entirely under the control of the Civil Engineering Graduate Studies Committee, currently chaired by Prof. Walker. Students who elect this option are allowed to take up to 8 hours of CE H783 (Senior Thesis) and 4 hours of CE 693(Individual Studies) provided that at least 4 hours of courses are Senior Petitioned. The student should exercise care to make certain the Senior Petitioned courses will apply towards the graduate program which they intend to enter upon completion of the BSCE degree. Students choosing this option are required to undertake a research project that culminates in a research report defended orally by the student before a committee of three faculty members. One of the faculty members on the committee must be the Honors Advisor (currently Prof. Mishalani for Civil Engineering and Dr. Walker for Environmental Engineering), and another member of the committee must be a Civil Engineering Technical Area Advisor who teaches and performs research in an area related to the student's research topic.

A special Undergraduate Technical Elective Approval form for students participating in the Honors and/or Accelerated Bachelor's/Master's programs are available on our web site www.ceegs.ohio-state.edu.

SENIOR PETITION – PROCEDURE

GRADUATE CREDIT FOR UNDERGRADUATES

An undergraduate may petition to take courses for graduate credit provided that:

1. the student is a senior (Rank 4);
2. the credit for the course is not used to meet baccalaureate degree requirements;
3. the student's cumulative point-hour ratio is 3.00 or above;
4. the student completes a Senior Petition form and secures permission by the end of the first day of classes from:
    - the secretary of the student's college or school (HI 122)
    - the instructor in charge of the course and
    - the Graduate School (247 University Hall)
5. the course is offered for graduate credit

6. These courses may not be counted toward a graduate degree until the student has been admitted to the Graduate School and until the Graduate Studies Committee accepts them and notifies the Graduate School. The hours are counted in the student's graduate earned and cumulative credit hour, and the grades are counted in the student's graduate cumulative point-hour ratio. No more than fifteen graduate credit hours may be completed under Senior Petition.

Civil and Environmental Engineering

GENERALIST OPTION - Technical Electives

ABET Accredited in Civil Engineering

Technical Advisor: Dr. Patrick Fox (495 A Hitchcock)

The Generalist Option is designed to fulfill the educational needs of most aspiring Civil Engineers. The careers of these people will involve a wide variety of activities, including, but not limited to, facilities design, construction and facilities management, environmental impact analysis, and public contact.

Technical electives for the Generalist Option:

Choose at least six courses from the following four groups to total 28 hours in consultation with your faculty advisor. You must choose no more than 2 courses from each category.

Structures and Soils (Choose one or two courses)

CE 531	Structural Analysis	4	AU
CE 532*	Structural Steel Design	4	AU
CE 534	Behavior of Structural Elements	4	SP
CE 651	Soil Mechanics	4	AU
CE 653	Principles of Rock Mechanics	4	SP
CE 731*	Intermediate Reinforced Concrete Design	4	AU (odd years)
CE 750*	Seepage in Permeable Materials	4	AU

Construction and Remote Sensing (Choose one or two courses)

CE 603	Remote Sensing of the Environment	4	WI
CE 604	Terrain Analysis	4	AU
CE 684	Construction Network Analysis	4	WI
CE 685	Deterministic Construction Estimating & Pricing	4	AU

Hydraulics and Environmental (Choose one or two courses)

CE 610	Analysis of Natural and Polluted Waters	3	AU
CE 613	Applied Hydrology	4	AU
CE 624	Coastal & Ocean Engineering	4	WI
CE 722	Open Channel Hydraulics	4	SP

Transportation (Choose one course)

CE 552*	Construction Matériels	4	SP
CE 670	Urban Public Transportation	4	WI
CE 672	Traffic Engineering Studies	3	AU
CE 673*	Highway Location and Design	4	WI

The total technical elective package must be a minimum of 28 credit hours.
***Students are required to complete at least one of the courses marked with an asterisk.**

*Please check prerequisites for these courses under respective specialization areas or University Course Offering Bulletin.

CONSTRUCTION ENGINEERING - Technical Electives

ABET Accredited in Civil Engineering

Technical Advisor: Dr. Fabian Tan (407 A Bolz)

Nearly all Civil Engineering projects include some construction. The design and the execution of the design is the responsibility of Civil Engineers. Construction Engineers analyze building problems based on function and economics, determine the building schedule, erection methods and equipment used, and estimate labor and material costs. Proper quality control procedures during construction will increase performance and productivity and reduce the risk of construction deficiencies. Program must have at least **28** hours distributed as follows:

Technical electives for major option in Construction Engineering:

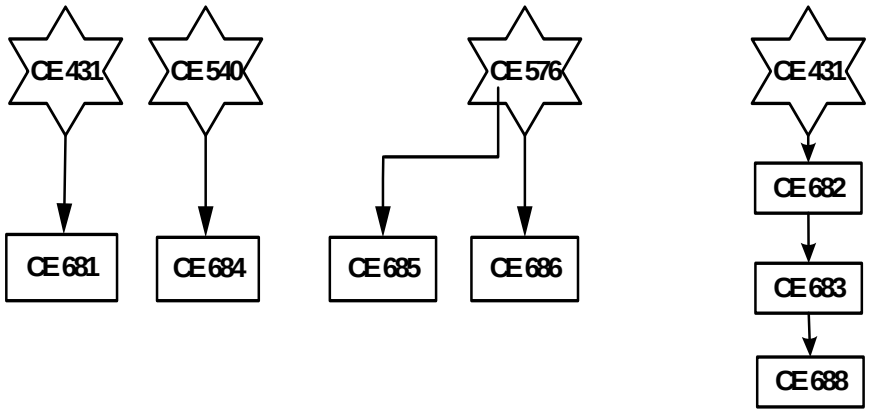
I. Required courses:

CE 682	Faults, Failures, and Forensics	4	AU
CE 683	Construction Accidents and Safety	4	WI
CE 685	Deterministic Construction Estimating & Pricing	4	AU

II. Plus any one of the following:

CE 681	Construction Methods, Equipment and Performance	4	AU
CE 684	Construction Network Analysis	4	WI
CE 686	Construction Contractes & Claims	4	SP
CE 688	Simulation in Construction Operations	4	SP

III. Plus additional courses from II above or any other area of specialization listed in this brochure in consultation with your faculty advisor to complete the 28-hour Technical Elective package.



ENVIRONMENTAL ENGINEERING - Technical Electives

ABET Accredited in Environmental Engineering

Technical Advisors: Dr. John Lenhart (417B Hitchcock), Hal Walker (417A Hitchcock), Linda Weavers (417F Hitchcock), Gil Bohrer (417E Hitchcock)

The Environmental Engineering Major Option in Civil Engineering has been accredited by the Accreditation Board for Engineering and Technology (ABET). Students may want to include a note on their resume that they have completed an ABET-accredited Environmental Engineering Program. Please note that the degree received is Bachelor of Science in Civil Engineering. Program must have at least **28** hours distributed as follows:

		Hrs	Qtr
ENVENG 511	Introduction to Environmental Engineering	3	SP
ChBE 771	Air Pollution	3	Wi

Water and Wastewater Engineering. *Required*:

ENVENG 610	Analysis of Natural and Polluted Waters	3	AU
ENVENG 620	Treatment Plant Design Laboratory	2	WI
ENVENG 711	Biological Processes for Used Water Treatment	4	WI

Solid and Hazardous Waste Engineering. *Required*:

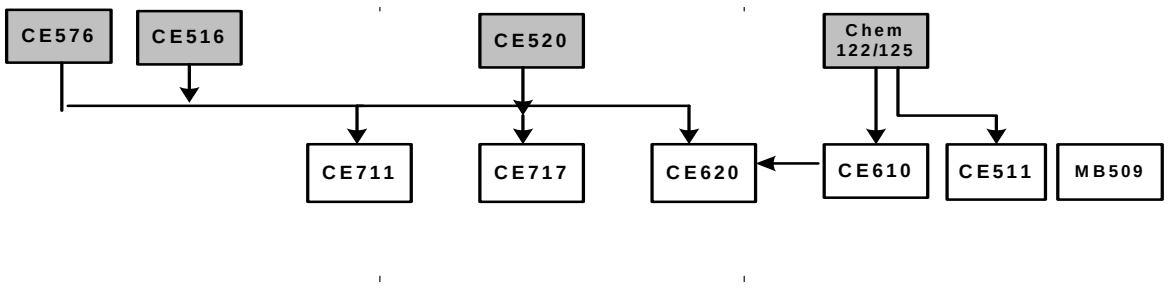
ENVENG 717	Municipal and Industrial Solid Waste Management	4	SP

Biological Sciences: *Required:*

Microbiol 509	Basic and Practical Microbiology	5	AU,WI,SP,SU

Electives: Remaining hours to be taken from Approved List of CE Tech Electives. *Recommended are*:

ENVENG 590.04	Environmental Engineering Process Development	2	AU,WI,SP
CE 603	Remote Sensing of Environment	4	WI
CE 613	Applied Hydrology	4	AU
ENVENG 618	Ecological Engineering and Science	4	WI
ENVENG 714	Hazardous Waste Management	3	SP (odd yrs)
ENVENG 719	Water Quality Modeling	3	AU (even yrs)
ENVENG 720	Environmental Engineering Risk Assessment	3	WI (even yrs)
ENVENG 722	Open Channel Hydraulics	4	SP
ENVENG 723	Transport Phenomena in Water Resources Engineering	4	AU
CE 750	Seepage in Permeable Materials	4	AU
ENVENG 771	Radioactive Waste Management	3	AU
ENVENG 798	Current Topics in Environmental Science & Engineering	1	AU
Geol Sci 651 (not listed)	Hydrogeology	5	AU
Nucl E 505	Introduction to Nuclear Science and Engineering	3	AU, SP
Nucl E 606	Radiological Safety	3	AU



GEOTECHNICAL ENGINEERING - Technical Electives

ABET Accredited in Civil Engineering

Technical Advisors: Dr. Wolfe (483D Hitchcock) and Dr. Fox (495A Hitchcock)

Geotechnical Engineers analyze the properties of soil and rock that affect the performance of buildings, dams, pavements, and underground facilities. They evaluate the potential settlement of buildings, the stability of slopes and fills, the effect of earthquakes, and the seepage of ground water. Geotechnical Engineers are involved in the analysis, design, and construction of earth dams, foundations for high rise buildings, tunnels, soils used in containment of hazardous wastes, and offshore oil platforms. Often Geotechnical Engineers are involved in the entire project, from field investigations to computer aided design to construction operations. Program must have at least **28** hours distributed as follows:

Technical electives for major option in Geotechnical Engineering:

I. Required courses:

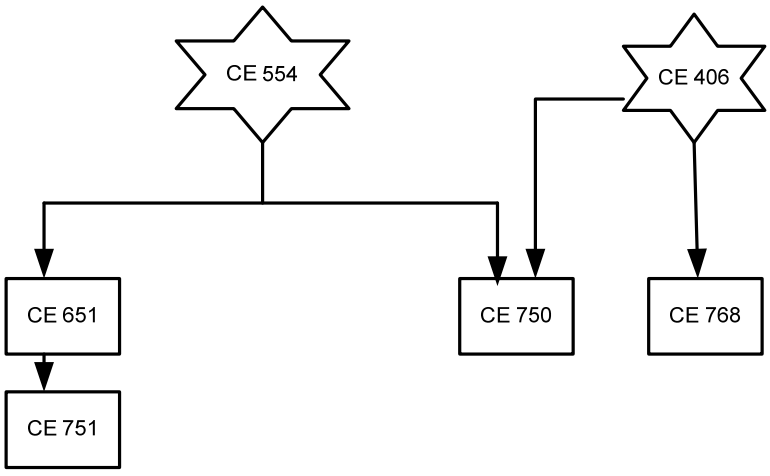
CE 651	Soil Mechanics	4	AU

II. Plus any three of the following:

CE 653	Principles of Rock Mechanics	4	SP
CE 750	Seepage in Permeable Materials	4	AU
CE 751	Principles of Foundation Analysis & Design	4	WI
CE 768	Introduction to the Finite Element Method	4	AU,WI

III. Plus additional courses from II above or any other area of specialization listed in this brochure in consultation with your faculty advisor to complete the 28-hour Technical Elective package.

For students majoring in Geotechnical Engineering, the faculty will allow the following non-CE courses be included in the Technical Elective package: Geol 530, 550**.**



HYDRAULIC ENGINEERING - Technical Electives

ABET Accredited in Civil Engineering

Technical Advisor: Dr. Ethan Kubatko (417C Hitchcock)

Hydraulic Engineers deal with the development, control, and management of our water resources. They predict surface runoff from precipitation, stream flow droughts and floods, groundwater supplies, and future water demands. Hydraulic Engineers determine reservoir sites for water supply, flood control, and hydroelectric power plants. They plan river and coastal developments to control damage and improve navigation Program must have at least **28** hours distributed as follows:

Technical electives for major option in Hydraulic, Coastal, and Hydrologic Engineering:

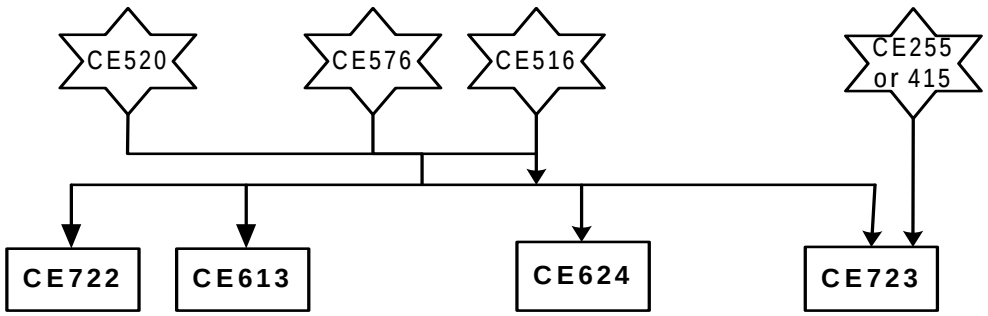
I. Required courses:

CE 722	Open Channel Hydraulics	4	SP

II. Plus any three of the following:

CE 613	Applied Hydrology	4	AU
CE 624	Coastal & Ocean Engineering	4	WI
CE 723	Transport Phenomena	4	AU
ENVENG 798	Current Topics in Environmental Science & Engineering	4	AU,SP

III. Plus additional courses from II above or any other area of specialization listed in this brochure in consultation with your faculty advisor to complete the 28-hour Technical Elective package.



* Math 415 preferred

REMOTE SENSING - Technical Electives

ABET accredited in Civil Engineering

Technical Advisor: Dr. Carolyn Merry (414A Bolz)

Remote sensing is a group of technologies used to measure or inventory land and water resources. It embodies traditional Civil Engineering disciplines of data analysis, photogrammetry, and surveying, as well as newer areas such as multi-spectral sensor measurements, image processing, and geographic information systems (GIS). Remote sensing is used in a variety of Civil Engineering applications, including site selection, resource mapping, water quality and quantity monitoring, geotechnical measurements, and non-destructive testing. Remote sensing studies provide additional background in newer technologies to enable the student to pursue Civil Engineering projects and complement more traditional major/minor options. Program must have at least **28** hours distributed as follows:

Technical electives for major option in Remote Sensing:

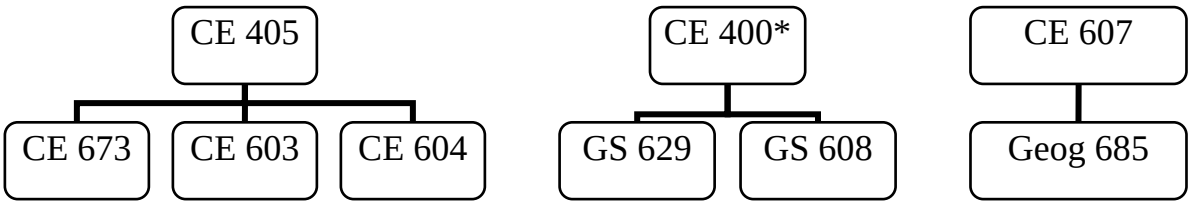
I. Required courses:

CE/GS 603	Remote Sensing of the Environment	4	WI
CE/GS 604	Terrain Analysis	4	AU
CE 673	Highway Location and Design	4	WI

II. Plus two of the following:

CE 607	Fundamentals of Geographic Information Systems	4	AU
GEODSCIE 629	Digital Photogrammetry I	4	SP
GEODSCIE 608	Introduction to GPS: Theory and Application	3	SP
Geog. 685	Intermediate Geographic Info Systems	5	WI
Geog. 686	Design and Implementation of Geographic Information	5	SP

III. Plus additional courses from II above or any other area of specialization listed in this brochure in consultation with your faculty advisor to complete the 28-hour Technical Elective package.



For students majoring in Remote Sensing, the faculty will allow the following non-CE courses to be included in the Professional Elective package: GS 608, 623, 624, 629, Geog 685. Total non-CE courses in Technical Elective package not to exceed **three**.

STRUCTURAL ENGINEERING – Technical Electives

ABET Accredited in Civil Engineering

Technical Advisors: Drs. Hojiat Adeli (409 Hitchcock), Shive Chaturvedi (405 Hitchcock), Halil Sezen (483A Hitchcock)

Civil Engineers plan, analyze, and design a wide variety of structures including bridges, high-rise buildings, concrete dams, transmission towers, and special offshore and space structures. Civil Engineers design with steel, concrete, timber and composites, and estimate the response of structures to wind, earthquakes, temperature, and vibrations. Program must have at least **28** hours distributed as follows:

Technical electives for major options in Structures Engineering:

I. Required courses:

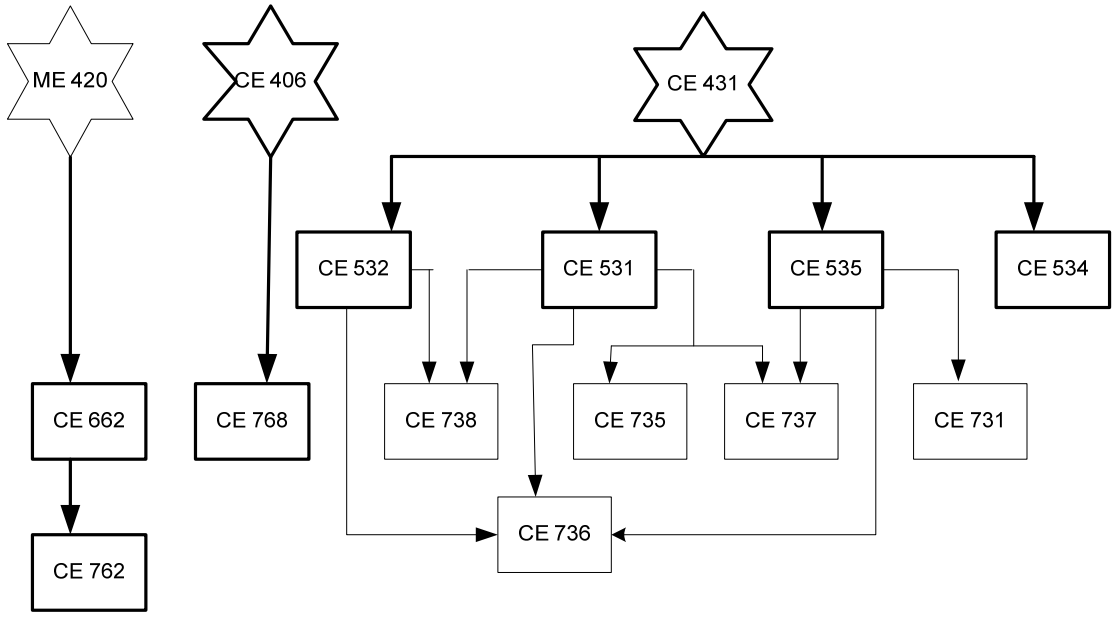
CE 531	Structural Analysis	4	AU
CE 532**	Structural Steel Design	4	AU
CE 534	Behavior of Structural Elements	4	SP

II. Plus any one 700 level class of the following:

CE 662	Intro to Mechanics of Composite Structures	4	AU
CE 731	Intermediate Reinforced Concrete Design	4	AU (odd yrs)
CE 735	Matrix Structural Analysis	4	WI (even yrs)
CE 736	Bridge Engineering	4	SP (even yrs)
CE 737	Prestressed & Precast Concrete Structures	4	WI (odd yrs)
CE 738	Intermediate Structural Steel Design	5	WI
CE 762	Structural Composites	3	WI
CE 768	Introduction to the Finite Element Method	4	Au,WI

**students having taken CE532 as a CE core course are required to take CE535

III. Plus additional courses from II above or any other area of specialization listed in this brochure in consultation with your faculty advisor to complete the 28-hour Technical Elective package.



Civil and Environmental Engineering

TRANSPORTATION ENGINEERING - Technical Electives

ABET Accredited in Civil Engineering

Technical Advisors: Drs. Frank Croft (240 Hitchcock), Ben Coifman (491B Hitchcock), Mark McCord (491D Hitchcock), and Rabi Mishalani (491C Hitchcock)

Transportation Engineers are involved in all modes of transportation systems. The challenge to Transportation Engineers is to plan, design, operate, and manage these systems so that they will provide safe, rapid, comfortable, convenient, and economical movement of people and goods. Highways and streets, mass transit systems, railroads, airports, waterways, and pipelines are all part of the transportation system. Problems addressed by Transportation Engineers include traffic congestion, economical planning and design, high speed rail systems, and efficient maintenance of highway and airport pavements. Transportation Engineers must understand the economic, political, and social factors of their projects, as well as the engineering design aspect. Program must have at least **28** hours distributed as follows:

Technical electives for major option in Transportation Engineering:

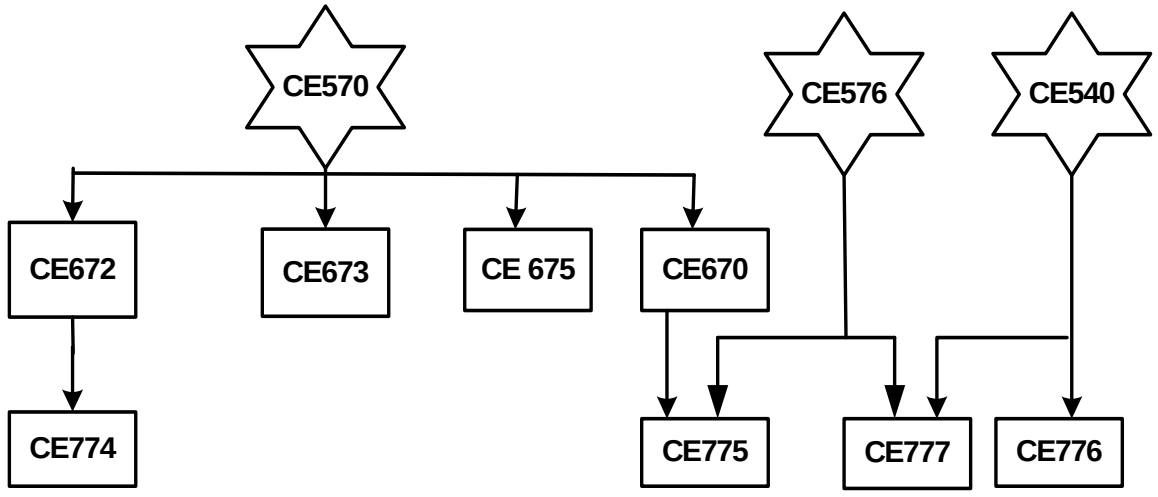
I. Required courses:

CE 672	Traffic Engineering Studies	3	AU
CE 673	Highway Location & Design	4	WI

II. Plus any two of the following:

CE 670	Urban Public Transportation	4	WI
CE 675	Instrumentation, Signals, and Control in Transportation	3	AU
CE 774	Design & Operation of Traffic Facilities	5	SP
CE 775	Urban Transportation Planning	4	AU
CE 776	Network Algorithms in Transportation Systems	5	WI
CE 777	Infrastructure systems Analysis	4	WI
CE 796	Interdepartmental Seminar Urban Transportation	1-5*	Au,SP

III. Plus additional courses from II above or any other area of specialization listed in this brochure in consultation with your faculty advisor to complete the 28-hour Technical Elective package.



*At most, 1 credit hour of CE796 allowed as a Technical Elective for Transportation majors -per Dr. McCord.

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ACADEMIC STANDARDS

Every Civil Engineering undergraduate student must meet certain standards of academic achievement. Students who fail to meet these criteria will be placed on academic probation. Specifically, the University Rules provide for two types of probation:

1. **Probation**
   (*University Rule 3335-9-25A*). Any student who has accumulated fifteen or more deficiency points shall be placed on probation. The probation shall continue provided the student's college considers the student's progress to be satisfactory and shall be removed when the deficiency points are fewer than fifteen. The dean of the college or the director of the school in which the student is registered shall notify the student of probationary status, except as provided in Faculty Rule 3335-9-27. Such notification shall include a clear statement of what shall be considered satisfactory progress.
2. **Probation by Special Action**
   (*University Rule 3335-9-25B*). If at any time the preparation, progress, or success of a student in an academic program is determined to be unsatisfactory, the College or School in which the student is registered shall be empowered to place the student on **Academic Probation**.

The Undergraduate Handbook outlining departmental probationary and dismissal policy is distributed to the Engineering Survey class every autumn. **Every student applying to the Civil Engineering major must submit a signed copy of the Academic Standards and Reinstatement of Dismissed Students along with their application to major.** The Undergraduate Handbook outlining the Department's probationary and dismissal policy is on the department's web for everyone to view.

A Civil Engineering student will be placed on **Special Action Probation** if the student has failed to maintain at least a 2.0 PHR based on all grades earned in all attempts of the following Monitored Courses: ME 410/H210, ME 420, and ME 430; CE 400.01 and .03, 405, 406, 413, 431, 451, 516, 520, 535, 540, 554, 570, and 576; and all courses taken as Professional Courses.

A Civil Engineering student who is on **Special Action Probation** will be sent a letter to their official university mailing address describing the particular conditions of the probation. Typical probation conditions include, but are not necessarily limited to:

a. The student must meet during the **first week** of each quarter with the chair of the Undergraduate Studies Committee to discuss the terms of the student's Special Action Probation.
b. The student must take a course load each quarter that is discussed with and approved by the chair of Undergraduate Studies Committee, who serves as the student's academic advisor while the student is on Special Action Probation.
c. The student may neither drop courses nor get any "incomplete" grades without the chair of the Undergraduate Studies Committee's prior written permission.
d. The student must remove a specified number of deficiency points based on grades earned in the monitored courses taken that quarter. Typically, three deficiency points must be removed if only one monitored course is taken, and five deficiency points must be removed if two or more monitored courses are taken.

Academic dismissal (University Rule 3335-9-26). If the student's college or school considers a student's progress as unsatisfactory in meeting the conditions placed on his probation, the college or school shall be empowered to dismiss the student from the university. An exception to this authority for undergraduate professional students shall be in accordance with Faculty Rule 3335-9-23. The dean of the college or the director of the school in which

the student was registered for the quarter, except as provided in Faculty Rule 3335-9-27 shall send notice of the dismissal to the student. No student shall be subject to academic dismissal unless she/he is currently on probation.

A Civil Engineering student on Special Action Probation will not be dismissed unless at least 15 hours of Monitored Courses have been attempted.

Notice of dismissal (University Rule 3335-9-27). The dean of the college in which the dismissed student is registered shall send notice of dismissal from the university.

REINSTATEMENT OF DISMISSED STUDENTS

1. Reinstatement after academic dismissal

(University Rule 3335-9-28). Any student who may be reinstated by a college or school following academic dismissal shall be subject to such special requirements as may be determined appropriate by the dean of the college or the director of the school. If the performance record of any reinstated student does not meet the conditions of probation specified at the time of reinstatement, then the college or school in which he/she is registered shall determine whether the student is to be dismissed or continue on probation.

Students who have been dismissed from the Civil Engineering major due to failure to meet conditions of Special Action Probation may petition in writing the Undergraduate Studies Committee to undertake a program of remedial action leading to reinstatement in the program. Such reinstatement programs typically involve the requirement that students retake all D's and D+'s earned in the course group Math 151 (Math 140,141), 152, 153, 254, 255 (or 415); Physics 131, 132, 133; ME 400 (410/H210), 420 (440), and 430; ENG 181, 183 (Eng Graph 166), and 167; Chem 121 and 122/125; CE 400.01 and .03 (402), 405, 406, 413, 431, 451, 516, 520, 535, 540, 554, 570, 576; and all courses taken as Technical Elective Courses, earning a grade of C or better in each retake. Some or all K credits may also be required to be retaken. Each course can be retaken only once. The student must remain out of the program for at least one academic year; however, if the student earns a B or better in each retake, the student can be reinstated as soon as all retakes are completed. In addition, the Undergraduate Studies Committee may require that specific measures be undertaken to resolve personal or financial problems that may have contributed to the student's academic difficulties.

When a reinstated student fails to fulfill the conditions of reinstatement, she/he is **dismissed the second time** from the program and will not be allowed to reenter the program except under the conditions of the five year Fresh Start Rule (3335-7-261).

A student who has attained a PHR of at least 2.0 in the pre-Civil Engineering Core, but who has previously been dismissed by another engineering department, will be required to follow the same remedial procedures required of previously dismissed Civil Engineering students before being admitted to the Civil Engineering program.

A student who has been dismissed two or more times from the College of Engineering Department(s) for academic reasons will not be eligible for reinstatement or entry into the department except under the conditions of the five year Fresh Start Rule (3335-7-261).

APPEAL PROCESS

1. A reinstated student may appeal to the Undergraduate Studies Chair in writing to adjust the projected course load for the reinstatement program.

2. A student may appeal any Departmental dismissal or any specific reinstatement condition(s) directly to the Academic Standards and Progress.

FACULTY AREAS of SPECIALIZATION

Construction

Tan, Fabian (Hadipriono)	tan.184@osu.edu	407A BO	292-8518

Environmental

Bohrer, Gil	bohrer.17@osu.edu	417E HI	292-4178
Kubatko, Karrie-Ann	kubatko.4@osu.edu	417C HI	292-6420
Lenhart, John	lenhart.49@osu.edu	417B HI	688-8157
Walker, Hal	walker.455@osu.edu	417A HI	292-8263
Weavers, Linda	weavers.1@osu.edu	417F HI	292-4061

General – Undergraduate Studies Chair

Fox, Patrick	fox.407@osu.edu	495A HI	292-5695

Geodetic Science

Brzezinska, Dorota	dbrzezinska@@osu.edu	223C BO	292-8787
Li, Ron	li.282@osu.edu	218C BO	292-6946
Schenk, Toni	schenk.2@osu.edu	214B BO	292-7126
Yilmaz, Alper	yilmaz.15@osu.edu	214C BO	247-4323

Geotechnical

Fox, Patrick	fox.407@osu.edu	495A HI	292-5695
Wolfe, William	wolfe.10@osu.edu	483D HI	292-0790

Hydraulics

Kubatko, Ethan	kubatko.3@osu.edu	417D HI	292-7176

Remote Sensing

Merry, Carolyn	merry.1@osu.edu	470 HI	292-3455

Structures & Materials

Adeli, Hojjat	adeli.1@osu.edu	409 HI	292-7929
Chaturvedi, Shive	chaturvedi.1@osu.edu	405 HI	292-2617
Sezen, Halil	sezen.1@osu.edu	483A HI	292-1338

Transportation

Coifman, Benn	coifman.1@osu.edu	491B HI	292-4282
Croft, Frank	croft.3@osu.edu	409 HI	292-6230
McCord, Mark	mccord.2@osu.edu	491D HI	292-2388
Mishalani, Rabi	Mishalani.1@osu.edu	491C HI	292-5949

Honors

Sezen, Halil	sezen.1@osu.edu	483A HI	292-1338

Civil and Environmental Engineering

TRANSFER CREDIT EVALUATION

Procedure for Evaluation of Civil Engineering courses – UNDERGRADUATE CREDIT TRANSFER

The following information/documents are **required** for **EACH CIVIL ENGINEEREING COURSE** that needs to be evaluated and should be submitted to Ms. Dutta, 475 HI, 2070 Neil Avenue, Columbus, OH 43210.

- Course syllabus listing text book(s) used and course content.
- Copy of transcript from the University where the course was taken, showing the grades received for the course;
- Copy of OSU credit evaluation form from the Admissions Office indicating how course(s) have been evaluated, eg. CE Gen, Spl, or Def
- A cover letter addressed to the Undergraduate Studies Chair indicating the current CE course(s) for which you are seeking transfer credit along with your telephone number and an e-mail address (if available) and/or a phone number where you can be reached in case of questions.

Evaluation of transfer credit is not done on a walk-in basis. Generally, the evaluation will be completed within two to three weeks.

NON-ENGINEERING TRANSFER CREDIT COORDINATORS

Major	Name	Address	Phone	Fax
Chemistry	Mary Bailey, bailey.3@osu.edu	100 Celeste, 120 W. 18th Ave.	292-1204	292-1685
Engineering	Dr. Gustafson, enginee.1@osu.edu Dr. Demel, enginee.1@osu.edu	122 Hitchcock, 2070 Neil Ave. 244 Hitchcock, 2070 Neil Ave.	292-0573 292-2427	 292-9379
En Graphics	Prof. Croft, croft.3@osu.edu	240 Hitchcock,2070 Neil Ave.	292-6230	292-3780
Mathematics	Judy Berenstein Diana Bevilacqua Judy Monson	105 Mathematics Bldg, 231 W 18th Ave.	292-6994	292-0167
Physics	Dr. Adelson, adelson@mps.ohio-state.edu	1036A Smith Lab, 174 W. 18th Ave.	292-2067	292-7557
English	Eddie Singleton (Comp.), singleton.1@osu.edu Carolyn Wilkins (Comp.), wilkins.8@osu.edu Sharyn Talbert (Lit.), talbert.1@osu.edu Christopher Highley (Lit.), highley.1@osu.edu	421 Denny Hall,164 W. 17th Ave	292-6065	292-7816

COLLEGE OF ENGINEERING TRANSFER CREDIT COORDINATORS

Major	Name	Address	Phone	Fax
Aero/Astro	Sandra Rhoads, rhoads.20@osu.edu	328 Bolz Hall, 2036 Neil Ave.	292-2691	292-8290
Agriciculture	Mike Lichtensteiger, lichtensteiger.2@osu.edu	216 Ag Build, 590 Woody Hayes Dr.	292-9351	292-9448
Aviation	Chuck Patterson, patterson.13@osu.edu	401 Aviation, 164 W 19th Ave.	292-2405	
Chemical	Dr. Jim Rathman, rathman.1@osu.edu	221D Koffalt, 140 w 19th Ave.	292-3760	292-3769
Civil	Laetitia Bramoulle-Hirt, Bramoulle-Hirt.1@osu.edu	475 Hitchcock Hall, 2070 Neil Ave	292-2005	292-3780
Cpt Sci & Eng	Debbie Gross, gross.142@osu.edu (100, 101, 200) David Mathias dmath@cse.ohio-state.edu (programming)	489 Dreese, 2015 Neil Ave. 497 Dreese, 2015 Neil Ave.	292-7946 292-6653	292-2911 292-2911
Electrical	Don Kasten, kasten.1@osu.edu	207 Caldwell Lab, 2024 Neil Ave.	292-1901	292-7596
Eng Physcis	Robert Scherrer, scherrer.1@osu.edu	1024 Smith, 174 W 18th	292-8523	292-7557
Industl & Sys	Clark Mount-Campbell	286 Baker Systems, 1971 Neil Ave	292-7856	
Mat. Science	Charles Drummond, Drummond@msn.eng.ohio-state.edu	388 Watts, 2041 College Rd.	292-6732	
Mechanical	Rosie Quinzon-Bonello, quinzon-bonello.1@osu.edu	E543 Scott Lab, 201 W. 19th Ave.	292-0515	688-5476
Geomatics Eng	Bill Hazelton. hazelton.5@osu.edu	222B Bolz, 2036 Neil Ave	292-7123	292-2957
Welding	Charles Albright, Albright.4@osu.edu	110 Edison Joining Tech. Ctr., 128 Adams Dr.	292-2570	292-6842