Student Information	
First Name:	_Last Name.#

Suggested Curriculum

This should be used as a **guide** only. Semester offerings are subject to change.

Year	Autumn	Spring
1	MATH 1151 (Calculus 1)5 hrENGR 1181 (Fundamentals of Engr 1)2 hr _PHYSICS 1250 (Mechanics, Thermal, Waves)5 hr _ENGR 1100 (Engineering Survey)1 hr _General Education3 hr	MATH 1172 (Engineering Math A)
2	MATH 2177 ² (Math Topics for Engineers) 4 hr MECHENG 2020 (Mech of Materials) 3 hr CIVILEN 2050 ³ (Prob & Data Interpretation) 3 hr CIVILEN 2810 (Constr Engr & Mgmt) 3 hr CHEM 1250 ⁴ (Gen Chemistry for Engineers) 4 hr CIVILEN 2090 (Professional Aspects) 1 hr	CIVILEN 2060 (Numerical Analysis Methods) 4 hrCIVILEN 3510 (Civil Engineering. Materials) 3 hrCIVILEN 3310 (Struct Engr. Principles) 3 hrCIVILEN 3540 (Geotech. Engineering) ANDCIVILEN 3541 (Geotechnical Engineering Lab)_ 3 hrMECHENG 2030 (Dynamics) 3 hr
3	CIVILEN 3700 (Transp Engr & Analysis)3 hrCIVILEN 3130 (Fluid Mechanics)3 hrCIVILEN 2410 (Intro to Geomatics/Surveying)3 hrCIVILEN 4320 (Structural Steel Design) QR 3 hrENVEN 3200 (Fundamentals of Envir Engr)3 hr	CIVILEN 3160 (Water Resources Engr.)3 hrCIVILEN 3080 (Economics & Optimization)3 hrAdditional Science Elective 14 hrTechnical Elective 13 hrTechnical Elective 23 hr
4	CIVILEN 4001 (CE Capstone 1) 2 hr Additional Science Elective 2 3 hr Technical Elective 3 3 hr General Education 3 hr General Education 3 hr General Education 3 hr	CIVILEN 4002 (CE Capstone 2)2 hrTechnical Elective 43 hrTechnical Elective 53 hrGeneral Education3 hrGeneral Education3 hrGeneral Education3 hr

Total Hours to complete the degree program = 131. Please note, <u>course schedules may not follow this plan exactly.</u> This is a reference guide for students. Students should contact their advisor for academic guidance. Courses in BOLD are only offered once per year.

Please contact a CEGE advisor if you have questions or concerns about any of the listed substitutions.

Please note that students who need preparatory work before beginning Math 1151 will need additional time to complete this curriculum. The outlined curriculum is not a prescribed plan and is intended to be used as a guide to assist students in progressing through the curriculum with respect to prerequisite courses. Course offerings are subject to change. Please check the course catalog for prerequisite requirements and course availability.

Acceptance Criteria

Acceptance into the Civil Engineering major is based on a holistic review of a written application and academic performance. Applications are accepted during Autumn and Spring terms. For AU20 applicants, both cumulative point hour ratio (CPHR) and eligibility point hour ratio (EPHR) will be reviewed. Students with at least a 3.0 EPHR and 2.0 CPHR are guaranteed admission. Applications can be submitted upon completion of or enrollment in Engineering 1100 and English 1110 and completion of or enrollment in all EPHR courses or their equivalent, which include Engineering 1181 and 1182, Math 1151 and 1172, Physics 1250 and Mechanical Engineering 2010. For SP21 applicants, only CPHR will be reviewed. Applications can be submitted upon completion of or enrollment in Engineering 1181 and 1182, Math 1151 and 1172, and either Physics 1250, Chemistry 1210 or Chemistry 1250.

¹CSE 1222 is an acceptable substitution for ENGR 1221

²MATH 2173+2174 or MATH 2568+2415 are acceptable substitutions for MATH 2177.

³ STATISTICS 3460 or 3470 are acceptable substitutions for CIVILEN 2050.

⁴ CHEM 1210 is an acceptable substitution for CHEM 1250.

Technical and Science Electives

Technical Electives: Students are required to complete 15 hours of technical electives from the approved Technical Elective List. Students must complete one course from each *Area*, with the remaining coursework coming from any combination of Areas. (Area 1: Infrastructure, Area 2: Transportation & Geodetic Engineering, Area 3: Water Resources & Environmental Engineering)

Area 1 Technical Elective:	Cr. Hrs
Area 2 Technical Elective:	Cr. Hrs
Area 3 Technical Elective:	Cr. Hrs
Technical Elective:	Cr. Hrs
Technical Elective:	Cr. Hrs
Additional Science Electives: Civil Engineering students are recof science elective credit hours from the approved Science Elective Science Elective course options can be found at https://ceg.osu.ed Additional Science Elective 1: Additional Science Elective 2:	ve List. At least one course must be taken from Group A. du/undergraduate-degrees/curriculum-and-bingo-sheets

General Education Requirement

Writing and Communication

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English 1110.xx	3 hr
Second Writing Course	3 hr
Social Science	
Only one course per Social Science group may count.	
Economics 2001.xx	3 hr

Visual and Performing Arts	
	3 hr
Literature	
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Historical Study	

	3 hr
Second Historical Study or Cultures and Ideas	

Social Diversity in the U.S. or Global Diversity

Course may overlap with another general education category.

0 / 3 hr

Ethics

Ethics courses listed below may overlap with their corresponding general education category.

Social Science, Individual & Groups sub-category: Economics 3048. Social Science, any sub-category: Sociology 3302, Sociology 3464. Cultures & Ideas: Bioethics 2010, Comparative Studies 2341, Philosophy 1332, Philosophy 1337, Philosophy 1338.

0/3 hr

3 hr

Foreign Language

Pre-approved substitutions

- A. Credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be substituted for one Gen Ed course requirement as a Cultures & Ideas.
- B. Completion of a foreign language minor permits a student to overlap up to 6 credit hours between the Gen Ed and minor. A curricular petition must be submitted to the student's program, which will forward it to the college for review. The courses must meet the spirit of the Gen Ed category for which overlap is requested.

University Capstone (Cross-Disciplinary Seminar)

Pre-approved substitutions

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any group. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course.

A list of approved general education courses can be found at engineering.osu.edu/major.