

## CIVIL AND INFRASTRUCTURE ENGINEERING BS – LASS TRACK

Fall 2008 – Spring 2009

### CONTACT INFORMATION

- Honors Program Advisor: Kathleen Alligood (alligood@gmu.edu)
- Department Chair: Michael Bronzini (mbronzin@gmu.edu)
- Department Undergraduate Coordinator: Mohan Venigalla (mvenigal@gmu.edu)
- Please see CIE Undergraduate Coordinator for advising as soon as possible

### REQUIRED HOURS

- Hours Required in Major: 51
- Hours Required in Honors: see honors advisor
- This major requires a total of 120 credits to graduate, 45 of which must be at the 300-level and above.

### ADVISING SHEET

- Honors Program Requirement
- ◆ Department Requirement
- ▲ College Requirement

1 <sup>st</sup> Year – 1 <sup>st</sup> Semester (Fall)	Credits
○ HNRS 110: Introduction to Research (grade C or better required)	4
○ MATH 113: Analytic Geometry and Calculus I (designated placement score required)	4
◆ ENGR 107: Introduction to Engineering	2
◆ ENGR 183: Engineering Computer Graphics	3
◆ ECON 103 or 103H: Contemporary Microeconomic Principles	3
Semester Total	16
1 <sup>st</sup> Year – 2 <sup>nd</sup> Semester (Spring)	
○ HNRS 122: Reading the Arts	3
○ HNRS 130: Conceptions of Self	3
◆ MATH 114: Analytic Geometry and Calculus II (prerequisite: C or better in MATH 113) or MATH 116: Honors Analytic Geometry and Calculus II	4
◆ CS 112: Introduction to Computer Programming	4
◆ PHYS 160 or 160H: University Physics I	4
Semester Total	18
2 <sup>nd</sup> Year – 1 <sup>st</sup> Semester (Fall)	
○ HNRS 131: Contemporary Society in Multiple Perspectives	3
◆ MATH 213: Analytic Geometry and Calculus III	3
◆ CHEM 251: General Chemistry for Engineers	4
◆ PHYS 260 or 260H and 261: University Physics II (Corequisite: MATH 213)	4
Semester Total	14
2 <sup>nd</sup> Year – 2 <sup>nd</sup> Semester (Spring)	
◆ Department-approved elective	3
◆ MATH 214: Elementary Differential Equations	3

◆ PHYS 266: Introduction to Thermodynamics	1
◆ ENGR 103: DO YOU MEAN ENGR 210???	3
◆ CEIE 230: Hydraulics	3
◆ STAT 344: Probabilities and Statistics for Engineers and Scientist I or MATH 351: Probability	3
Semester Total	16
<b>3<sup>rd</sup> Year – 1<sup>st</sup> Semester (Fall)</b>	
○ HNRS 240: Reading the Past	3
◆ ENGR 310: Mechanics of Materials	3
◆ CEIE 290: Engineering Computation and Design	3
◆ CEIE 301: Engineering and Economic Models in Civil Engineering	3
◆ CEIE 340: Water Resource Engineering	3
Semester Total	15
<b>3<sup>rd</sup> Year – 2<sup>nd</sup> Semester (Spring)</b>	
○ HNRS 230: Cross-Cultural Perspectives	3
◆ Technical Elective (see Department listings)	3
◆ CEIE 305: Soil Mechanics	3
◆ CEID 311: Structural Analysis	3
◆ CEIE 360: Introduction to Transportation Engineering	3
Semester Total	15
<b>4<sup>th</sup> Year – 1<sup>st</sup> Semester (Fall)</b>	
◆ CEIE 367: Behavior of Concrete and Steel Structures	3
◆ CEIE 400: Civil Engineering Planning and Management	3
◆ CEIE 440: Water Supply and Distribution	3
◆ CEIE 455: Introduction to Environmental Engineering	3
◆ CEIE Transportation Technical Elective (see Department listing)	3
Semester Total	15
<b>4<sup>th</sup> Year – 2<sup>nd</sup> Semester (Spring)</b>	
○ HNRS 353: Technology in the Contemporary World (grade of C or better required)	3
◆ CEIE 463: Construction Systems	3
◆ CEIE 490: Senior Design Project	3
◆ CEIE Technical Elective (see Department listing)	3
◆ CEIE Environmental Technical Elective (see Department listing)	3
Semester Total	15
Total Hours	124

## NOTES

1. College requirements (VS) include 24 credit hours of department-approved liberal arts and social science electives.