

Systems Engineering BS – LASS Track

Fall 2009 – Spring 2010

CONTACT INFORMATION

- Honors Program Advisor: Kathleen Alligood (alligood@gmu.edu)
- Department Chair: Ariela Sofer
- Department Undergraduate Advisor: Kathryn Laskey (klaskey@gmu.edu)

REQUIRED HOURS

- Hours Required in Major: 84
- Hours Required in Honors: See honors advisor
- Total hrs to graduate - 120, including 45 hrs at 300+ level, 45 hrs for PHYS Major, 20 hrs of MATH.

ADVISING SHEET

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

1 st Year – 1 st 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) ²	4
◆ ECON 103 or 103H: Contemporary Microeconomic Principles	3
◆ CS 112: Introduction to Computer Programming	4
◆ ENGR 107: Introduction to Engineering	2
Semester Total	17
1 st Year – 2 nd Semester (Spring)	
○ HNRS 122: Reading the Arts	3
◆ MATH 114: (prerequisite: C or better in MATH 113) or MATH 116: Analytic Geometry and Calculus II	4
◆ CS 211 0r 211H: Object-Oriented Programming	3
◆ PHYS 160/161 or 160H/161: University Physics I (Prereq or coreq: MATH 114 or 116)	3/1
◆ SYST 101: Understanding Systems Engineering	3
Semester Total	16/17
2 nd Year – 1 st Semester (Fall)	
○ HNRS 240: Reading the Past	3
◆ MATH 213: Analytic Geometry and Calculus III	3
◆ SYST 210: Systems Design	3
◆ PHYS 260/261: University Physics II/University Physics II Laboratory (Prereq or coreq: MATH 213 or 215)	3/1
Semester Total	12/13
2 nd Year – 2 nd Semester (Spring)	
◆ MATH 203: Matrix Algebra	3
◆ MATH 214: Elementary Differential Equations	3

◆ SYST 220: Dynamical Systems I and SYST 221: Systems Modeling Laboratory	3/1
◆ CHEM 211 or 211H or 251 See University Catalog	4
○ HNRS 130: Conceptions of Self	3
Semester Total	17
3rd Year – 1st Semester (Fall)	
○ HNRS 131: CONTEMPORARY SOCIETY IN MULTIPLE PERSPECTIVES	3
◆ STAT 346 (or MATH 351-approved on special case only see dept.)	3
◆ SYST 320: Dynamical Systems II	3
◆ TECHNICAL ELECTIVE	3
◆ OR 441: Deterministic Operations Research	3
Semester Total	15
3rd Year – 2nd Semester (Spring)	
◆ STAT 354 : Probability and Statistics for Engineering and Scientist II	3
◆ SYST 330: Systems Methods	3
◆ SYST 335: Discrete Systems Modeling and Simulations	3
◆ SYST 371: Systems Engineering Management	3
○ HNRS 230: Cross-Cultural Perspectives	3
Semester Total	15
4th Year – 1st Semester (Fall)	
◆ SYST 470: Human Factors Engineering	3
◆ SYST 489: Senior Seminar	3
◆ SYST 490: Senior Design Project I	3
◆ Technical Elective	3
◆ SYST 473: Decision and Risk Analysis	3
	15
4th Year – 2nd Semester (Spring)	
○ HNRS 353: Technology in the Contemporary US (Grade of C or better required)	3
◆ Technical Elective	3
◆ SYST 495: Senior Design Project II	3
◆ OR 442: Stochastic Operations Research	3
	12
Total Hours	120

NOTES

1. College requirements (VS) include 24 credits of department-approved liberal arts and social science electives.
2. MATH 113 fulfills the quantitative reasoning requirement for the Honors College. Math 113 requires a placement exam. See the Math Department for exam days and times.