**Systems Engineering BS – LASS Track**
Fall 2008 – Spring 2009

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

- o Honors Program Requirement
- ♦ Department Requirement
- ⅄ College Requirement

| 1st Year – 1st Semester (Fall) | Credits |
|---|---|
| o HNRS 110: Introduction to Research (grade C or better required) | 4 |
| ♦ MATH 113: Analytic Geometry and Calculus I (designated placement score required) | 4 |
| ♦ Department-approved elective [1] | 3 |
| ♦ CS 112: Introduction to Computer Programming | 4 |
| ♦ ENGR 107: Introduction to Engineering | 2 |
| Semester Total | 17 |

| 1st Year – 2nd Semester (Spring) | |
|---|---|
| o HNRS 122: Reading the Arts | 3 |
| ♦ MATH 114: (prerequisite: C or better in MATH 113) or MATH 116: | 4 |
| ♦ CS 211: Object-Oriented Programming | 3 |
| ♦ PHYS 160/161 or 160H/161 See University Catalog | 4 |
| ♦ SYST 101: Understanding Systems Engineering | 3 |
| Semester Total | 17 |

| 2nd Year – 1st Semester (Fall) | |
|---|---|
| o 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 | 4 |
| Semester Total | 13 |

| 2nd Year – 2nd Semester (Spring) | |
|---|---|
| ♦ MATH 203: Matrix Algebra | 3 |
| ♦ MATH 214: Elementary Differential Equations | 3 |
| ♦ SYST 220: Dynamical Systems I | 3 |
| ♦ CHEM 211 or 211H or 251 See University Catalog | 4 |
| o HNRS 130: Conceptions of Self | 3 |

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|---|---|
| Semester Total | 16 |
| 3rd Year – 1st Semester (Fall) | |
| o 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 |
| ♦ SYST 473: Decision and Risk Analysis | 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 |
| | 12 |
| 4th Year – 2nd Semester (Spring) | |
| o HNRS 353: TECHNOLOGY IN THE CONTEMPORARY US (Grade of C or better required) | 3 |
| o HNRS 230: Cross-Cultural Perspectives | 3 |
| ♦ SYST 495: Senior Design Project II | 3 |
| ♦ OR 442: Stochastic Operations Research | 3 |
| | 12 |
| Total Hours | 117 |

NOTES

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