ENGINEERING – SUSTAINABLE DESIGN PROGRAM

Green Engineering:

- EGR 275: ENVIRONMENTAL SITE ENGINEERING & DESIGN
- EGR 276: SUSTAINABLE RESOURCE ENGINEERING & DESIGN
- EGR 321: THERMODYNAMICS
- EGR 365: FLUID MECHANICS & HYDROLOGY
- EGR 343: GREEN ARCHITECTURAL ENGINEERING
- EGR/CS 434: GREEN ROBOTICS, AUTOMATION, and MACHINE INTELLIGENCE
- EGR 470: ENGINEERING INTERNSHIP (must be green) or EGR 370: ENGINEERING SPECIAL TOPICS (must be green) or EGR 280: ENGRINEERING RESEARCH (must be green)

Special Core:

- ART105: DRAWING
- SO 204: POPULATION AND GLOBAL ISSUES

Engineering Mechanics:

- EGR 262: STATICS
- EGR 263: DYNAMICS

Electrical Engineering:

- EGR 210: CIRCUIT ANALYSIS
  Analog Circuits I
  Lecture & Lab
- EGR 310: SIGNALS & SYSTEMS
  Lecture & Lab
- EGR 410: CONTROL THEORY
  Lecture & Lab
Other Engineering Courses:

- EGR 100: INTRO TO ENGINEERING I
- EGR 110: INTRO TO ENGINEERING II
- EGR 291: SOPHOMORE PROJECT
- EGR 391: JUNIOR PROJECT
- EGR 491: ENGINEERING SENIOR PROJECT I
- EGR 492: ENGINEERING SENIOR PROJECT II
- EGR 395: FALL SEMINAR
- EGR 396: SPRING SEMINAR
- EGR 400: ENGINEERING PORTFOLIO

Physics (Calculus-based):

- PHY 200 (Core): PHYSICS I
  - Newtonian Mechanics
  - Lecture & Lab
- PHY 201: PHYSICS II
  - Electricity and Magnetism
  - Lecture & Lab
- PHY 202: PHYSICS III
  - Optics, Thermo, Fluids, Relativity
  - Lecture & Lab

Calculus:

- MA 121 (Core): CALCULUS I
- MA 122: CALCULUS II
- MA 221: CALCULUS III
- MA 321: DIFFERENTIAL EQUATIONS

Other required courses for Major:

- CH 105 (Core): CHEMISTRY
  - Lecture & Lab
- PH 255A,C, or D (Core): ETHICS
- CS 121: COMPUTER SCIENCE I
  - Java

*J. Wunderlich, 2011*