**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Honors Pre-Vet

Pre-Med Pre-Dental

|  |  |  |
| --- | --- | --- |
|  | **Courses I have taken****(Term/Year)** | **Courses I will be taking****(Term/Year)** |
| **GNEG 1111 Introduction to Engineering I (Fa)** |  |  |
| **MATH 2554 Calculus I (Sp, Su, Fa)** |  |  |
| **CHEM 1103 University Chemistry I (Su, Fa)**  |  |  |
| **PHYS 2054 University Physics I (Sp, Su, Fa)**Pre- or Corequisite: MATH 2554Corequisite: Lab component |  |  |
| **ENGL 1013 Composition I (Sp, Su, Fa)** |  |  |
| **GENG 1121 or 1103 Introduction to Engineering II (Sp)**Prerequisite: GNEG 1111 |  |  |
| **MATH 2564 Calculus II (Sp, Su, Fa)**Prerequisite: MATH 2554 with a grade of C or better |  |  |
| **CHEM 1123/21L University Chemistry II (Sp, Su, Fa)**  |  |  |
| **BIOL 1543/41L Principles of Biology (Sp, Su, Fa)** |  |  |
| **ENGL 1023 Technical Composition II (Sp, Su, Fa)** |  |  |
| **BMEG 2613 Introduction to BMEG (Fa)**: Prerequisite: GNEG 1121 or 1103, C or better in CHEM 1103, MATH 2554, and PHYS 2054 |  |  |
| **PHYS 2074 University Physics II (Sp, Su, Fa)**Pre- or Corequisite: MATH 2564Corequisite: Lab component; Prerequisite: PHYS 2054 |  |  |
| **MATH 2574 Calculus III (Sp, Su, Fa)**Prerequisite: MATH 2564 with a grade of C or better |  |  |
| **CHEM 3603/01L Organic Chemistry I (Su, Fa)**Prerequisite: CHEM 1123/21L |  |  |
| **BIOL 2533 Cell Biology (Sp, Fa)**Pre- or Corequisite: CHEM 1123/21L Prerequisite: BIOL 1543 and BIOL 1541L  |  |  |
| **BMEG 2813 Biomechanical Engineering (Sp)**Prerequisite: BMEG 2613, CHEM 1123, MATH 2564, PHYS 2074 |  |  |
| **BMEG 2904 Biomedical Instrumentation (Sp)**Prerequisite: BMEG 2613, MATH 2564, PHYS 2074 |  |  |
| **MATH 2584 Differential Equations (Sp, Su, Fa)**Prerequisite: MATH 2564 with a grade of C or better |  |  |
| **CHEM 3613/11L Organic Chemistry II (Sp, Su)**Prerequisite: CHEM 3603 and CHEM 3601L |  |  |
| **BMEG 3634 Biomaterials (Fa)**Prerequisite: BMEG 2813, CHEM 1123, BIOL 1543/41L |  |  |
| **BMEG 3124 Biomedical Signals & Systems (Fa)**Prerequisite: BMEG 2904  |  |  |
| **CHEG 2313 or MEEG 2403 Thermodynamics (Sp, Su, Fa)**(CHEG 2313) Pre- or Corequisite: MATH 2574(MEEG 2403) Prerequisite: PHYS 2054 and MATH 2564 |  |  |
| **BIOL 2213/11L Human Physiology (Sp, Fa)**Prerequisite: CHEM 1123/21L |  |  |
| **CHEG 2133 or MEEG 3503 Fluid Mechanics (Sp, Su, Fa)**(CHEG 2133) Pre- or Corequisite: MATH 2574(MEEG 3503) Pre- or Coreq: MATH 2584; Prerequisite: MEEG 2403 |  |  |
| **BMEG 3653/H Biomed. Model. & Num. Methods (Sp)**Prerequisite: BMEG 2613, MATH 2574, MATH 2584 |  |  |
| **BMEG 3824/H Biomolecular Engineering (Sp)**Prerequisite: BMEG 3634, CHEM 1123, BIOL 2533 |  |  |
| **BMEG 4623/H Biomedical Transport Phenomena (Fa)**Pre-requisite: BMEG 3653, MATH 2574, MATH 2584, Fluids, Thermo |  |  |
| **BMEG 4813 Biomedical Engineering Design I (Fa)**Corequisite: BMEG 4623 |  |  |
| **BMEG 4823 Biomed Engineering Design II (Sp)**Prerequisite: BMEG 4813 |  |  |
| **Science Elective1 (3 hrs)****Course:** |  |  |
| **BMEG Elective2 (3 hrs)****Course** |  |  |
| **BMEG Elective2 (3 hrs)****Course** |  |  |
| **BMEG Elective2 (3 hrs)****Course** |  |  |
| **US History Requirement3****Circle one HIST 2003 HIST 2013 PLSC 2003** |  |  |
| **Humanities4****Course:** |  |  |
| **Fine Art4****Course:** |  |  |
| **Social Science4****Course** |  |  |
| **Social Science4****Course** |  |  |
| **Social Science4****Course** |  |  |

Have you filled out the online survey in Internships/Research? Yes ❒ No ❒
*\*Completion of survey is required for removal of advising hold.*

**Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1Students can select from the following or others approved by department:**

|  |  |
| --- | --- |
| BIOL 2323 General Genetics BIOL 2443 Human Anatomy BIOL 2013 General MicrobiologyBIOL 4263 Cell PhysiologyBIOL 4313 Molecular Cell BiologyBIOL 4653 Cancer BiologyBIOL 4713 Basic Immunology  | CHEM 2263 Analytical Chemistry CHEM 2613 Organic Physiological ChemistryCHEM 3203 Forensic ChemistryCHEM 3453 Elements of Physical ChemistryCHEM 3504 Physical Chemistry ICHEM 3514 Physical Chemistry IICHEM 3813 Introduction to Biochemistry CHEM 4813H Honors Biochemistry I CHEM 4843H Honors Biochemistry II  |

**2Students should select from the following list based on their field of interest. Check with department regarding updated list e very semester:**

BIOL 4167 Dynamic Models in Biology

BIOL 4233 Genomics and Bioinformatics

BMEG 4504 Biomedical Microscopy (Irr)

BMEG 4243 Advanced Biomaterials and Biocompatibility (Irr)

BMEG 4103L/M Nanotechnology Laboratory (Fa)

BMEG 4213 Cell and Tissue Mechanics (Irr)

BMEG 4413 Tissue Engineering (Irr)

BMEG 470V Special Topics in Biomedical Engineering (Irr) : *Varies by semester*

BMEG 460V Individual Study \*

BMEG 460VH Honors Individual Study \*

BMEG 450VH Honors Thesis\*

Biomedical engineering-related courses in College of Engineering (4000 or above) approved by department

\* Between BMEG 460V, 460VH and 450VH, up to 3 hours total may be counted towards a BMEG elective requirement.

**3Students should select:** HIST 2003 History of the American People to 1877 or HIST 2013 History of the American People 1877 to Present or PLSC 2003 American National Government

**4Students should consult the Catalog of Studies for a listing of approved Fine Arts, Humanities, and Social Science courses**

Last updated: 11/05/2015