**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 2554  Corequisite: 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 2564  Corequisite: 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 Microbiology BIOL 4263 Cell Physiology BIOL 4313 Molecular Cell Biology BIOL 4653 Cancer Biology BIOL 4713 Basic Immunology | CHEM 2263 Analytical Chemistry  CHEM 2613 Organic Physiological Chemistry  CHEM 3203 Forensic Chemistry  CHEM 3453 Elements of Physical Chemistry  CHEM 3504 Physical Chemistry I  CHEM 3514 Physical Chemistry II  CHEM 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