Engineering Program
Science Elective I and II Requirements & Options
(normally taken in second and fourth semesters)

Biomedical Engineering
Science 1: CH 116 Chemistry II and CH 118 Chemistry Lab II
Science 2: CH 281 Biology without CH282 Biology Lab

Chemical Engineering
Science 1: CH 116 and CH 118
Science 2: CH 281 Biology without CH 282 Biology Lab

Civil Engineering
Science 1: CH 116 Chemistry II with or without CH 118 Chemistry Lab II
Science 2: CH 281 Biology with or without CH 282 Biology Lab as long as one lab is included in the 2 courses

Computer Engineering (science elective 2 deferred to term 6)
any two out of six of CH 281 Biology, CH 116 Chemistry II, PEP 201 Physics III for Engineers with lab, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology or PEP 151 Introduction to Astronomy, as long as one lab is included in the 2 courses

Electrical Engineering (science elective 2 deferred to term 6)
any two out of six of CH 281 Biology, CH 116 Chemistry II, PEP 201 Physics III for Engineers with lab, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology or PEP 151 Introduction to Astronomy, as long as one lab is included in the 2 courses

Engineering - concentration in Information Systems Engineering
any two out of six of CH 281 Biology, CH 116 Chemistry II, PEP 201 Physics III for Engineers with lab, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology or PEP 151 Introduction to Astronomy, as long as one lab is included in the 2 courses

Engineering - concentration in Naval Engineering
any two out of six of CH 281 Biology, CH 116 Chemistry II, PEP 201 Physics III for Engineers with lab, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology or PEP 151 Introduction to Astronomy, as long as one lab is included in the 2 courses

Engineering Management
any two out of six of CH 281 Biology, CH 116 Chemistry II, PEP 201 Physics III for Engineers with lab, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology or PEP 151 Introduction to Astronomy, as long as one lab is included in the 2 courses
Environmental Engineering
Science 1: CH 116 Chemistry II and CH 118 Chemistry Lab II
Science 2: CH 281 Biology, PEP 151 Introduction to Astronomy, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology (web course) or PEP201 Physics III for Engineers with lab, as long as one lab is included in the 2 courses

Mechanical Engineering
Science 1: CH 116 Chemistry II or CH 281 Biology
Science 2: PEP 201 Physics III for Engineers with lab

Software Engineering
any two out of six of CH 281 Biology, CH 116 Chemistry II, PEP 201 Physics III for Engineers with lab, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology or PEP 151 Introduction to Astronomy, as long as one lab is included in the 2 courses

LAB REQUIREMENT
If a lab was NOT taken with the Science Elective I choice it will be required with the Science Elective II choice.

- EN250, NANO200 & PEP151 do not have a laboratory associated with it. Therefore, take these courses only if you have taken a laboratory with Science Elective I.
- PEP201 has a built in lab component which fulfills the lab requirement.

WHEN COURSES ARE OFFERED:
- CH 116 and CH 281 are offered in the Spring & Summer II
- NANO 200 is offered only in the Fall
- PEP 151 is offered in the Fall & Summer II
- PEP 201 is offered in all semesters

NOTE
Science Elective I & II cannot be in the same field.
- CH281 & EN250 are considered science electives from the same field.

Modified: Oct 20, 2015