

First Semester Blueprint Department of Engineering

Guidance for first semester registration:

- Students should register for a minimum of 12 credits.
- All First-Year students are required to take First Year Seminar (IDFY 101 or IDFY 102H, for Honors students) their first term. This is a required course, and each section focuses on a different topic for students to explore. You will choose a particular section based on your interest in the topic and scheduling logistics.
- Science labs meet approximately three hours once a week. As you arrange your class schedule, consider the meeting times of labs first, then design the rest of your schedule around them.
- If you have earned Advanced Placement (AP) or other college credit, you may be able to bypass some Engineering requirements and/or General Education requirements.
 - Students who place out of MATH 111, for example, should take MATH 112. If you are concerned about your level of preparation, despite performing well on the AP exam, we recommend that you enroll in MATH 112, knowing that you can revert to MATH 111 in the first few weeks of the course if necessary. There is a MATH 111 section at the same time as MATH 112 to facilitate such a change, should it become necessary, without further impact to your schedule. Please consider choosing this section time if this scenario may apply to you.
 - If you have not received your AP scores by course registration, register for MATH 111 (Calculus I) and MATH 111L (Lab: Calculus I) along with MATH 103 (co-requisite to MATH 111/111L). If you later earn credit based on AP scores, drop these MATH courses and register for either MATH 112/112L or MATH 211/211L, depending on the precise AP credits you have earned. If you anticipate this outcome, consider choosing sections of MATH 111/111L that meet at the same time as MATH 112/112L and MATH 211/211L to simplify future schedule changes.
 - Click this link for more information, [AP, CLEP, IB Credit](#).
- The first-year experience is the same for all Engineering disciplines/degrees, as summarized in the table on the following page, so you need not feel committed to a particular Engineering discipline at this time.
- There are two regular activities, optional to first year students, that you may want to consider when choosing course times:
 - The Engineering Department hosts a weekly Professional Development Seminar at noon on Tuesdays. Attendance is not required, but if you want to have the opportunity to attend those sessions, consider leaving that class time open. The Professional Development Seminar focuses on career awareness and features a guest speaker each week.
 - Collaboratory project teams typically meet on Tuesday and Thursday mornings, 10:30-11:45. If you plan to get involved with a team during your first semester, it will help to leave this time slot open at least one of those days.
- Please consult with your academic advisor regarding first year course sequencing if you are in the University Honors Program.
 - ENGR 8 semester plan includes the first level of language and FYS in semester 1, second level of language and ENGL 110 in semester 2.
 - ENGR Honors students (who do not transfer in either language or ENGL 110) will need to take FYS and ENGL 110 in their first semester in order to take IDEG 300H and first level of language in semester two.
- You can view the most up-to-date version of the schedule of classes by accessing [The View](#).
- For further assistance, contact Brian Swartz, Engineering Department Chair, 717-796-1800 ext. 3986 or BSwartz@messiah.edu.

The First Semester Blueprint is your guide to course registration in your first semester. View the recommended courses below (developed by your faculty) for your first semester at Messiah.

Engineering (BSE, BSBME, BSCE, BSEE, BSME, BSRE)

Students MUST register for the following four courses/combinations:		<u>Credits</u>
IDFY 101 OR IDFY 102H (Honors)	First Year Seminar	3
ENGR 111 ¹	Introduction to Engineering AND	2
ENGR 111L ¹	Lab: Introduction to Engineering	0
¹ Register for the same section of lecture and lab. For example, ENGR 111 section 01 (CRN 1132) AND ENGR 111L section 01 (CRN 1136).		
CHEM 105 ²	General Chemistry I AND	4
CHEM 105L ^{2,3}	Lab General Chemistry I	0
² Please review the Guidelines for Chemistry Courses		
AND ONE of the following sets:		Please review the Guidelines for Calculus Courses
MATH 105	Precalculus for the Sciences	3
OR		
MATH 103	Supplemental Calculus I AND	1
MATH 111	Calculus I AND	4
MATH 111L ³	Lab: Calculus I	0
OR		
MATH 112	Calculus II AND	4
MATH 112L ³	Lab: Calculus II	0
OR		
MATH 211	Calculus III AND	4
MATH 211L ³	Lab: Calculus III	0
³ Section correspondence is not required between lecture and lab for MATH and CHEM courses. Students may register for any lecture section and any lab section of the same course number.		

Select from the following General Education options to complete your schedule:	<u>Credits</u>
ENGL 110 (24GE: Critical Reading & Writing)	3
History ⁴ (24GE: History)	3
PHIL 101 or RELI 229 (24GE: Philosophy/Religion)	3
Language Course (24GE: Language; CHIN, FREN, GERM, SPAN)	3

Recommended total credits your first semester:	12-17 credits
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⁴Search [The View](#) by attribute type(s) noted above

Specific major-related questions may be directed to Brian Swartz, Engineering Department Chair, 717-796-1800 ext. 3986 or BSwartz@messiah.edu.