

First Semester Blueprint Department of Engineering

When planning your first semester...

- Students should register for a minimum of 12 credits.
- All First-Year students are required to take First Year Seminar their first term. This is a required writing course, and each section focuses on a different topic for students to explore.
- **QuEST** (Qualities Essential for Student Transformation) courses are Messiah University's general education program completed by all students. Specific recommendations for your first semester are included on the blueprint.
- 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 QuEST 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 drop down 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 in order to facilitate such a change, should it become necessary, without further impact to your schedule.
 - 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. 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 in order 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.
- 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.
- 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. 2190 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 courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
ENGR 111**	Introduction to Engineering AND	2
ENGR 111L**	Lab: Introduction to Engineering	0
CHEM 105*	General Chemistry I AND	4
CHEM 105L*	Lab General Chemistry I	0
<p>**Register for the same section of lecture and lab. For example, ENGR 111 section 01 (CRN 1386) AND ENGR 111L section 01 (CRN 1389). <i>Many students will have time conflicts between athletic, music commitments and late afternoon lab sections. If you do not have such commitments, please consider registering for the later sections so that those who need slots in the earlier sections can register for them.</i></p> <p>*Please review the Guidelines for Chemistry Courses</p>		
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 ¹	Calculus I AND	4
MATH 111L	Lab: Calculus I	0
OR		
MATH 112	Calculus II AND	4
MATH 112L	Lab: Calculus II	0
OR		
MATH 211	Calculus III AND	4
MATH 211L	Lab: Calculus III	0

Select from the following QuEST options to complete your schedule:	<u>Credits</u>
COMM 105 (Fundamentals of Oral Communication)	3
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3
PHIL 101 (Problems in Philosophy) or RELI 229 (Islam)	3
Language Course (CHIN, FREN, GERM, SPAN)	3

Recommended total credits your first semester:**12-17 credits**

** Search [The View](#) by attribute type(s) noted above

Specific major-related questions may be directed to Dr. Brian Swartz, Department Chair Engineering, bswartz@messiah.edu, or 717-796-1800 ext. 2190.

¹ MATH 111/111L is intended to be an in-person course for residential and commuter students. Students are advised **NOT** to register for the online asynchronous section of MATH 111/111L (CRNs 1615/1619). These sections are intended for dual-enroll students who are not residential.