



College of Science & Mathematics Student Success Center Computer Engineering/ Electrical Engineering Major Course Recommendations

These recommendations will help you build your WISER course schedule “shopping cart” based the sample schedules below.

Your math placement result determines which sample schedule to select.

If you are placed into MATH115, take...

- **MATH115**- College Algebra; 3 Credits
- **ENGIN104** - Introduction to Electrical and Computer Engineering; 3 Credits
- **ENGL101** - Composition I; 3 Credits
- **General Education Distribution** - 3 Credits
- **General Education Distribution** - 3 Credits
- **INTR-D 187S** - Gateway Seminar; 2 Credits⁽¹⁾

Total Credits: 17

If you are placed into MATH130, take...

- **MATH130** - Pre-Calc; 3 Credits
- **ENGIN104** - Introduction to Electrical and Computer Engineering; 3 Credits
- **ENGL101** - Composition I; 3 Credits
- **General Education Distribution** - 3 Credits
- **General Education Distribution** - 3 Credits
- **INTR-D 187S** - Gateway Seminar; 2 Credits⁽¹⁾

Total Credits: 17

Computer Engineering: If you placed into MATH140

- **MATH140** - Calculus I; 4 Credits
- **ENGIN104** - Introduction to Electrical and Computer Engineering; 3 Credits
- **CS110** - Introduction to Computing; 4 Credits
- **ENGL101** - Composition I; 3 Credits
- **INTR-D 187S** - Gateway Seminar; 2 Credits⁽¹⁾

Total Credits: 16

Electrical Engineering: If you placed into MATH140

- **MATH140** - Calculus I; 4 Credits
- **ENGIN104** - Introduction to Electrical and Computer Engineering; 3 Credits
- **ENGL101** - Composition I; 3 Credits
- **CS110** - Introduction to Computing; 4 Credits
- **INTR-D 187S** - Gateway Seminar; 2 Credits⁽¹⁾

Total Credits: 16

Important Considerations:

- ⁽¹⁾The First Year Seminar Requirement can be satisfied by taking either a:
 - First Year Seminar G-100 level (4-credits), or
 - Year-long sequence of Gateway Seminars (2-credits each) - Gateway seminars fill up quickly!
- Computer Engineering majors should carefully review the attached Tech-Science Decision Guide to assess if this major aligns with your interests, skills, and career aspirations.
- Enrollment into CS 110 requires placement into Math 140. (ALEKS: 74, SAT: 640, ACT: 27)
- If you have earned AP credit or have dual enrollment credit being transferred, speak to an advisor.
- Students should **NOT** register for CS 105.

For Future Academic Planning:

- Some classes in the EE and CE majors have grade requirements that must be met in order to move on to the next level of a class.
 - Math 115: Earn a B or better to move on to Math 130
 - Math 130: Earn a B or better to move on to Math 140
 - All other major courses require a grade of a C- or better to count towards the major



College of Science & Mathematics

Student Success Center

Physics/Engineering Physics Major

Course Recommendations

These recommendations will help you build your WISER course schedule “shopping cart” based the sample schedules below.

Your math placement result determines which sample schedule to select.

If you are placed into MATH115, take...

- **MATH115**- College Algebra; 3 Credits
- **ENGIN104** - Introduction to Electrical and Computer Engineering; 3 Credits
- **ENGL101** - Composition I; 3 Credits
- **First-Year Seminar** - 4 Credits⁽¹⁾
- **General Education Distribution** - 3 Credits

Total Credits: 16

If you are placed into MATH130, take...

- **MATH130** - Pre-Calc; 3 Credits
- **ENGIN104** - Introduction to Electrical and Computer Engineering; 3 Credits
- **ENGL101** - Composition I; 3 Credits
- **First-Year Seminar** - 4 Credits⁽¹⁾
- **General Education Distribution** - 3 Credits

Total Credits: 16

If you are placed into MATH140, take...

- **Physics 113 and 181** - Physics I Lecture and Lab; 6 Credits
- **Math 140**- Calculus 1; 4 Credits
- **ENGL 101**- Composition I; 3 Credits
- **First-Year Seminar** - 4 Credits⁽¹⁾

Total Credits: 17

Important Considerations:

- ⁽¹⁾The First Year Seminar Requirement can be satisfied by taking either a:
 - First Year Seminar G-100 level (4-credits), or
 - Year-long sequence of Gateway Seminars (2-credits each) - Gateway seminars fill up quickly!
- If you have earned AP credit or have dual enrollment credit being transferred, speak to an advisor.
- If you are having trouble enrolling into Physics 113/181 because the class is full, please contact the Physics Department (physics@umb.edu)
- Enrollment into Physics 113 and Physics 181 requires placement into Math 140. (ALEKS: 74, SAT: 640, ACT: 27)

For Future Academic Planning:

- Some classes in the Engineering Physics and Physics majors have grade requirements that must be met in order to move on to the next level of a class. These are called prerequisites.
 - Math 115: Earn a B or better to move on to Math 130
 - Math 130: Earn a B or better to move on to Math 140
 - Math 140: Earn a C- or better to move on to Math 141
 - Physics 113 and 181: Earn a C- or better in both classes to move on to Physics 114 and 182