

School of Engineering — Lower Division Requirements

| Bioengineering | Met | Fall | Spring |
|---|-----|------|--------|
| Computer Science course: BioE 021 | | | |
| Chemistry courses: CHEM 002* | | | |
| CHEM 010* → CHEM 010* | | | |
| CHEM 008+L* | | | |
| Biology courses: BIO 001 + L | | | |
| BIO 002* + L | | | |
| Engineering Fundamental course: ENGR 45* | | | |
| Bioengineering courses: BIOE 060* | | | |
| BIOE 065* | | | |

| Environmental Engineering | Met | Fall |
|---|-----|------|
| Computer Science course: ME 021 | | |
| Chemistry courses: CHEM 002* | | |
| CHEM 010* | | |
| ENVE Course: ENVE 20* | | |
| Engineering fundamentals: ENGR 057* | | |
| <i>Additional 7 units chosen from:</i> | | |
| ENGR 045*, ENGR 065*, ENGR 130*, ENGR 151*, ENGR 180* | | |

| Computer Science & Engineering | Met | Fall | Spring |
|--|-----|------|--------|
| Computer Science courses: CSE 20 | | | |
| CSE 21* | | | |
| CSE 15* | | | |
| CSE 30* | | | |
| CSE 31* | | | |
| Additional ENGR Course: ENGR 065* | | | |

| Mechanical Engineering | Met | Fall |
|---|-----|------|
| Computer Science course: ME 021 | | |
| Fundamental Engineering courses: ENGR 045* ENGR 057* ENGR 065* | | |

| Materials Science & Engineering | Met | Fall |
|---|-----|------|
| Computer Science course: ME 021 | | |
| Engineering Fundamental courses: ENGR 045* | | |
| ENGR 057* | | |

***Prerequisites (◊ may be taken concurrently)**

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|----------------|-----------------------|-----------------|-----------------------|----------------|----------------|----------------|-----------------|-----------------------|----------------|----------------|-----------|
| <u>BIO 002</u> | <u>BIOE 030</u> | <u>CHEM 008</u> | <u>CHEM 010</u> | <u>CSE 021</u> | <u>CSE 030</u> | <u>CSE 031</u> | <u>ENVE 020</u> | <u>PHYS 010</u> | <u>ENG 045</u> | <u>ENG 057</u> | <u>EN</u> |
| BIO 001 | CHEM 002 [◊] | CHEM 002 (A-) | CHEM 002 | CSE 020 | CSE 021 | CSE 030 | CHEM 010 | PHYS 008 | CHEM 002 | MATH 021 | MA |
| | BIO 001 | (or CHEM 010) | MATH 011 [◊] | | | | MATH 021 | PHYS 009 [◊] | MATH 021 | PHYS 008 | PH |
| | MATH 021 | | | | | | | | PHYS 008 | | |
| | PHYS 008 | | | | | | | | | | |

A successful student is a happy student! Let us help— follow these tips:

- Review sample plans and flow charts for the School of Engineering at engr-advising.ucmerced.edu
- Run MyDegreePath before & after you register.
- If you struggle to pass any math or science courses, see an advisor! We can discuss alternative pathways to your chosen career.
- Utilize a GPA calculator: registrar.ucmerced.edu/gpa_calculator
- See a Peer Academic Advisor: M, W, R (10 am-4 pm); T (10:30 am-4 pm) in Half Dome Learning Center (160)
- Tutoring is a great option for all students! And it's free!
 - > The Math Center: mathcenter.ucmerced.edu
 - > Peer Assisted Learning Support (PALS): learning.ucmerced.edu
 - > The Writing Center: <http://library.ucmerced.edu/research/students/writing-center>
- Take career assessments to determine the best major for you! Visit hire.ucmerced.edu.



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G 065
1TH 024
YS 009