

# Mechanical Engineering Curriculum

## Freshman Fall

| Course         | Title                  | Credits |
|----------------|------------------------|---------|
| ENGL 1010/1011 | Composition            | 4       |
| MATH 1131Q     | Calculus I             | 4       |
| CHEM 1127Q     | Chemistry I            | 4       |
| ENGR 1000      | Orient. to Engineering | 1       |
| CSE 1010       | Intro. to Computing    | 3       |

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**Total Credits** **16**

## Freshman Spring

| Course     | Title                 | Credits |
|------------|-----------------------|---------|
| MATH 1132Q | Calculus II           | 4       |
| ENGR 1166  | Found. of Engineering | 3       |
| PHYS 1501Q | Physics for Engr. I   | 4       |
| GEN ED     | Content Area Course   | 3       |
| GEN ED     | Content Area Course   | 3       |

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**Total Credits** **17**

## Sophomore Fall

| Course     | Title                    | Credits |
|------------|--------------------------|---------|
| CE 2110    | Applied Mechanics I      | 3       |
| MATH2110Q  | Multivariable Calculus   | 4       |
| ME 2233    | Thermodynamic Principles | 3       |
| PHYS 1502Q | Physics for Engr. II     | 4       |
| GEN ED     | Content Area Course      | 3       |

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**Total Credits** **17**

## Sophomore Spring

| Course    | Title                  | Credits |
|-----------|------------------------|---------|
| CE 2120   | Applied Mechanics II   | 3       |
| MATH2410Q | Differential Equations | 3       |
| ME 2234   | Applied Thermodynamics | 3       |
| PHIL 1104 | Ethics                 | 3       |
| GEN ED    | Content Area Course    | 3       |
| GEN ED    | Content Area Course    | 3       |

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**Total Credits** **18**

## Junior Fall

| Course  | Title                    | Credits |
|---------|--------------------------|---------|
| CE 3110 | Mechanics of Materials   | 3       |
| ME 3xxx | ME Elective              | 3       |
| ME 3250 | Fluid Dynamics I         | 3       |
| ME 3253 | Linear Systems Theory    | 3       |
| ME 3263 | Intro. to Sensors & Data | 3       |

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**Total Credits** **15**

## Junior Spring

| Course   | Title                    | Credits |
|----------|--------------------------|---------|
| ME 3220  | Mechanical Vibrations    | 3       |
| ME 3242  | Heat Transfer            | 3       |
| ME 3264  | App. Measurements Lab    | 3       |
| MSE 2101 | Materials Science & Eng. | 3       |
| YYY xxxx | Prof. Requirement        | 3       |

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**Total Credits** **15**

## Senior Fall

| Course   | Title                    | Credits |
|----------|--------------------------|---------|
| ME 3227  | Design of Machine Elem.  | 3       |
| ME 3255  | Computational Mechanics  | 3       |
| ME 4972  | Senior Design Project I  | 3       |
| ME 3xxx  | ME Elective              | 3       |
| ECE 2000 | Elec. & Comp. Principles | 3       |

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**Total Credits** **15**

## Senior Spring

| Course   | Title                    | Credits |
|----------|--------------------------|---------|
| ME 4973W | Senior Design Project II | 3       |
| ME 3xxx  | ME Elective              | 3       |
| YYY xxxx | Prof. Requirement        | 3       |
|          | Free Elective            | 3       |
|          | Free Elective            | 3       |

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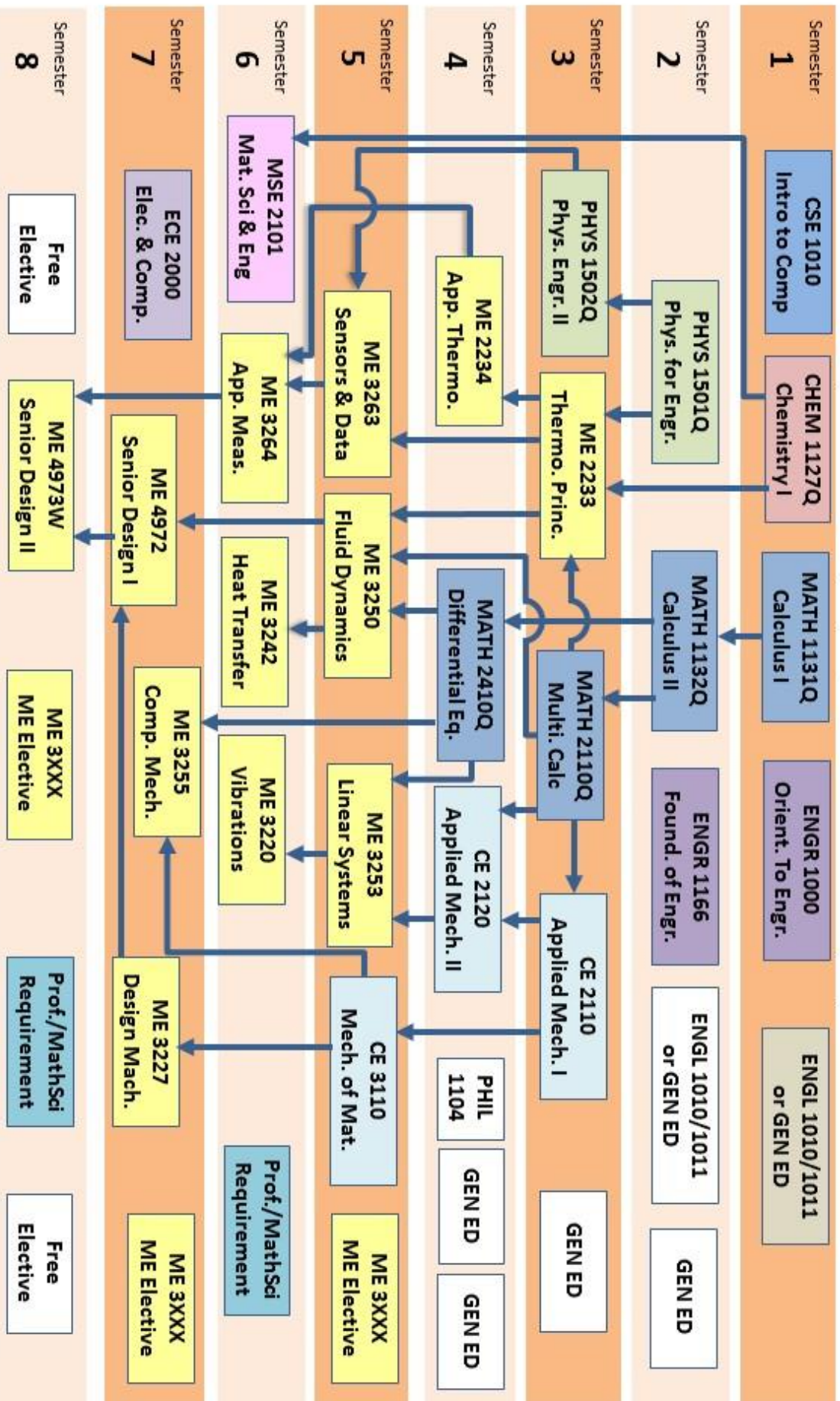
**Total Credits** **15**

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**Total Credits for 4 years** **128**

# Mechanical Engineering Curriculum Map

(down arrows indicate pre-requisite, horizontal arrows indicate co-requisite)



## Professional Requirement

Two courses at the 2000 level or higher in engineering, mathematics, statistics, physical, or life sciences

**Note:** 2000 level or higher mathematics, statistics, physics, or life sciences courses may be used to satisfy both requirements.

## Additional Math and Science Requirement

6 credits in 1000 level or higher mathematics, statistics, physics, or life sciences. For a complete list of courses that satisfy this requirement, see your advisement report.

You must meet with your academic advisor at least once every semester to ensure you are making satisfactory progress towards your degree.