# Proposed Curriculum for Mechanical Engineering

**MGCCC-MSU Program** (02/09/2015)

## Freshman (Fall Semester)
- CHE 1214: General Chemistry I with Lab (4)
- ENG 1113: English Composition I (3)
- MAT 1613: Calculus I (3)
- *Fine Art Elective* (3)
- *Humanities Elective* (3)

## Freshman (Spring Semester)
- ENG 1123: English Composition II (3)
- MAT 1623: Calculus II (3)
- PHY 2514: General Physics I with Lab (4)
- CHE 1224: General Chemistry II with Lab (4)
- *Social Beh./Science Elective* (3)

## Total Hours - 64

### Note:
- Only 63 hours will transfer (ME’s do not need Chemistry II Lab)

*General Education Courses. Must be from the approved listing.*

*Computer Programming includes C or object-oriented programming i.e., C++ (excludes visual basic programming)*

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## Sophomore (Fall Semester)
- EGR 2413: Engineering Mechanics I (3)
- MAT 2613: Calculus III (3)
- PHY 2524: General Physics II with Lab (4)
- CSC: Computer Programming* (3)

## Sophomore (Spring Semester)
- EGR 2433: Engineering Mechanics II (3)
- MAT 2623: Calculus IV (3)
- MAT 2913: Differential Equations I (3)
- *Humanities Elective* (3)

## Total Hours - 64

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## Junior (Fall Semester) – First Offering FL ‘16
- ME 2133: Modeling and Manufacturing (3)
- EM 3213: Mechanics of Materials (3)
- EM 3313: Fluid Mechanics (3)
- ME 3113: Engineering Analysis (3)

## Junior (Spring Semester) – First Offering SP ’17
- ME 3513: Thermodynamics I (3)
- EM 3213: Mechanics of Materials (3)
- ME 3313: Fluid Mechanics (3)
- ME 3113: Engineering Analysis (3)
- ME 1111: Intro to Mechanical Engineering (1)

## Total Hours - 64

### Note:
- Technical Electives must be from the approved listing. One TE must be a “ME” 4XXX level course.

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## Senior (Fall Semester) – First Offering FL ’17
- ME 4403: Machine Design (3)
- ME 3313: Heat Transfer (3)
- ME 3613: System Dynamics (3)
- ME 3103: Exp. Measures & Techniques (3)
- GE 3513: Technical Writing (3)

## Senior (Spring Semester) – First Offering SP ’18
- ME 4443: Mechanical Systems Design (3)
- ME 4333: Energy Systems Design (3)
- ME 4301: Thermo-Fluids Lab (1)
- ME 4401: Solid Mechanics Lab (1)
- ME 4111: Professional Seminar (1)

### Technical Elective (3)

## Total Hours - 64

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