

# Mechanical Engineering Technology, B.S., Mechanical Concentration

303-556-2976 South 226

Catalog 11-12

This sheet applies to the 2011-2012 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	42 min.
Major courses	51
Additional Requirements	11
Concentration	24
<b>Total to graduate (min. 40 hrs upper division)</b>	<b>128 min</b>

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

## GENERAL STUDIES LEVEL I: (must be completed within first 30-credit hours)

### Composition

- \_\_\_ **ENG 1010-3** Freshman Comp: the Essay
- \_\_\_ **ENG 1020-3** Freshman Comp: Anal., Rsrch & Docum.

### Mathematics

- \_\_\_ **MTH 1410-4** Calculus I
  - or **MTH 1400-4** Pre-Calculus & **MTH 1410-4** Calculus I
- (Note: MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400)

### Communications

- \_\_\_ **SPE 1010-3** Public Speaking

## GENERAL STUDIES LEVEL II

### Historical

- \_\_\_ -3

### Arts & Letters

- \_\_\_ PHI 1030-3 Introduction to Ethics
- \_\_\_ -3

### Social Sciences

- \_\_\_ ECO 2010-3 Principles of Economics: Macro
- \_\_\_ -3

### Natural Sciences

- \_\_\_ **CHE 1800-4** General Chemistry I
- \_\_\_ PHY 2311-4 General Physics I
- \_\_\_ PHY 2321-1 General Physics I Lab
- \_\_\_ PHY 2331-4 General Physics II
- \_\_\_ PHY 2341-1 General Physics II Lab

## ADDITIONAL GRADUATION REQUIREMENT

Multicultural Requirement (may be satisfied in General Studies)

- \_\_\_ -3

MAJOR COURSES: For every MET course, a minimum grade of "C" is required for all prerequisites before a student can progress.

- \_\_\_ **MET 1000-3** Introduction to Mechanical Engineering
- \_\_\_ **MET 1010-3** Manufacturing Processes
- \_\_\_ **MET 1200-3** Technical Drawing I
- \_\_\_ **MET 1210-3** 3D Modeling
- \_\_\_ **MET 1310-3** Principles of Quality Assurance
- \_\_\_ MET 2200-3 Materials of Engineering
- \_\_\_ MET 3110-3 Thermodynamics
- \_\_\_ MET 3160-3 Mechanics II-Dynamics
- \_\_\_ MET 3180-3 Fluid Mechanics I
- \_\_\_ MET 3210-4 Introduction to Computer Aided Engineering
- \_\_\_ MET 3410-3 Geometric Dimensioning and Tolerancing
- \_\_\_ MET 4000-3 Project Engineering
- \_\_\_ CET 2150-3 Mechanics I-Statics
- \_\_\_ CET 3135-4 Mechanics of Materials with Laboratory

### Additional Technical Requirements

- \_\_\_ EET 2000-3 Electric Circuits & Machines
- \_\_\_ EET 3010-4 Industrial Electronics

### Additional Requirements

- \_\_\_ COM 2610-3 Introduction to Technical Writing
- \_\_\_ **MTH 1410-4** Calculus I
- \_\_\_ **MTH 2410-4** Calculus II

### Mechanical Concentration

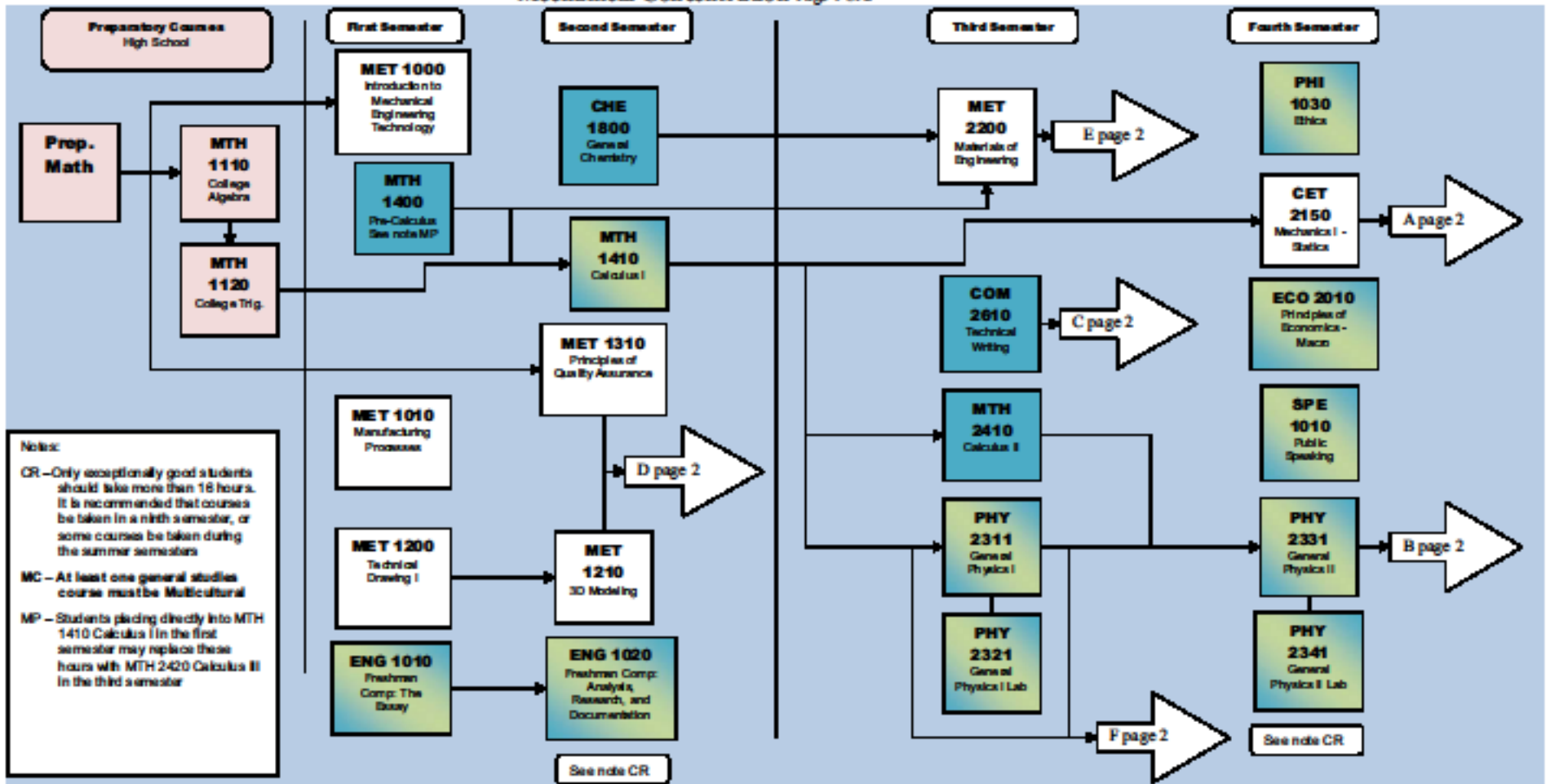
- \_\_\_ MET 3070-3 Machine Design
- \_\_\_ MET 3125-3 Heat Transfer with Laboratory
- \_\_\_ MET 3190-3 Fluid Mechanics II
- \_\_\_ MET 3320-3 Instrumentation Laboratory
- \_\_\_ MET 3xxx-3 Upper-division MET elective
- \_\_\_ MET 3xxx-3 Upper-division MET elective
- \_\_\_ MET 4070-3 Computer Aided Design (Senior Experience)
- \_\_\_ MET 4280-3 Advanced Energy Technology

## ADDITIONAL NOTES

- **Recommended Math Minor for MET Students:** The Mechanical Engineering Technology program recommends that students pursue a minor in Mathematics. See the catalog for the combination of math classes for MET students.
- **\*Courses in bold are recommended for students to complete within their freshman year at Metro State.**

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