

# PRE-MEDICAL OPTION

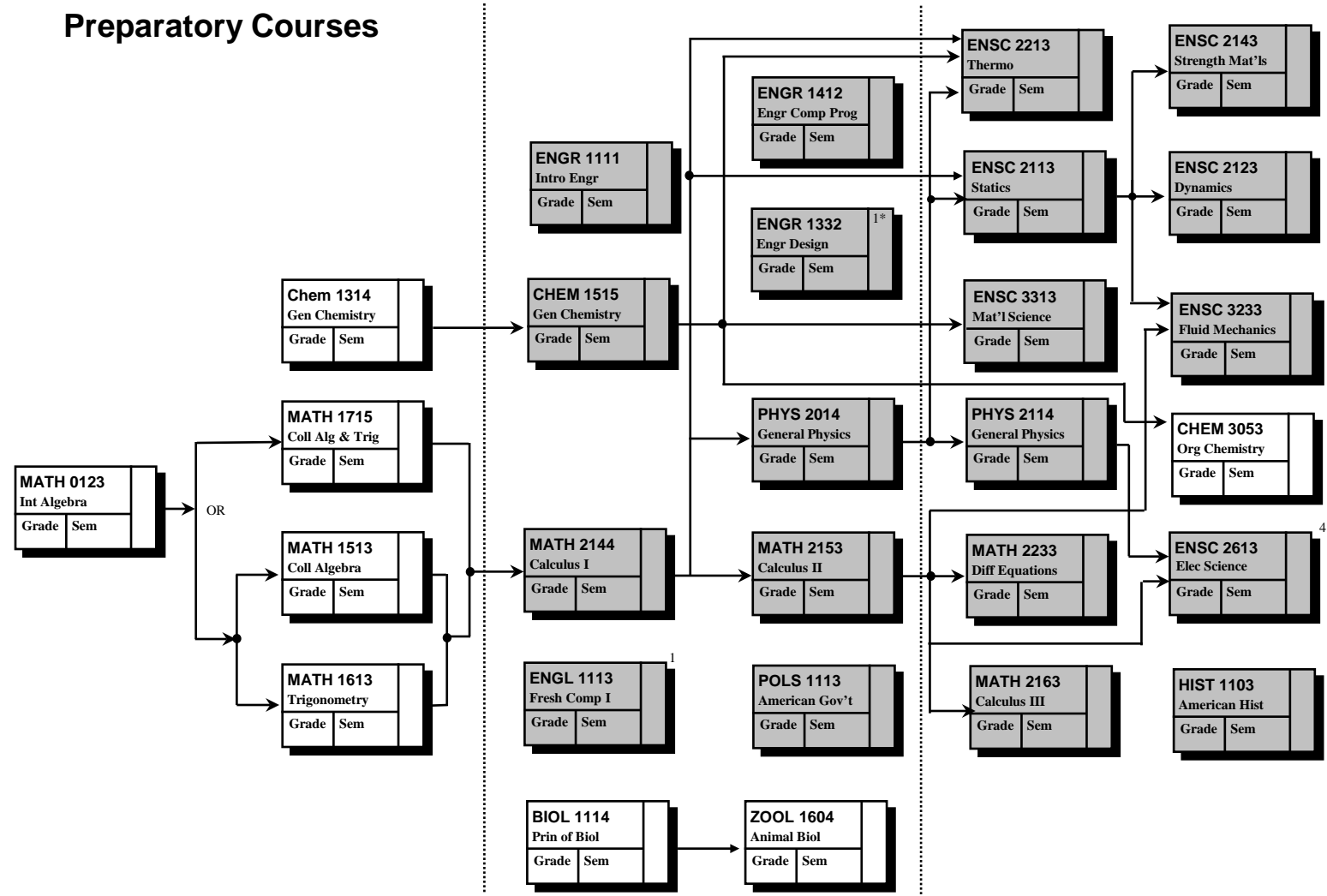
## Pre-Engineering MECHANICAL ENGINEERING 142 Semester Hours 2011-2012

### Oklahoma State University College of Engineering, Architecture & Technology

Name: \_\_\_\_\_

Advisor: \_\_\_\_\_

### Preparatory Courses



### Admission Requirements for the Mechanical Engineering Professional School.

To be admitted into MAE Professional School - to be eligible to take the upper level MAE courses - the student shall have met the Professional School requirements. They are:

- Completion of at least 60 college level semester credit hours (SCH).
- Completion of at least 12 SCH from OSU.
- Completion of at least 57 SCH from the Pre-Professional School courses.
- Completion of MATH 2144, 2153, and 2163; PHYS 2014 and 2114; CHEM 1414; four Pre-Professional ENSC courses; ENGL 1113 or 1313, and, if required, ENGL1213 or 1413.
- An overall GPA of 2.6 or better at OSU.
- A GPA of 2.7, or better, in all of the college-level math and statistics courses which are required for the B.S. in Mechanical Engineering.
- A GPA of 2.7, or better, in all of the college-level science and engineering courses which are required for the B.S. in Mechanical Engineering. These courses depend on your MAE degree option; but, include PHYS, CHEM, BIOL, GEOL, ENGR, ENSC, MAE, etc.

NOTE: This flow chart is for planning purposes only. Students matriculating in 2011 must meet the degree requirements as stated on the official degree requirement sheet dated "Academic Year 2011-2012."

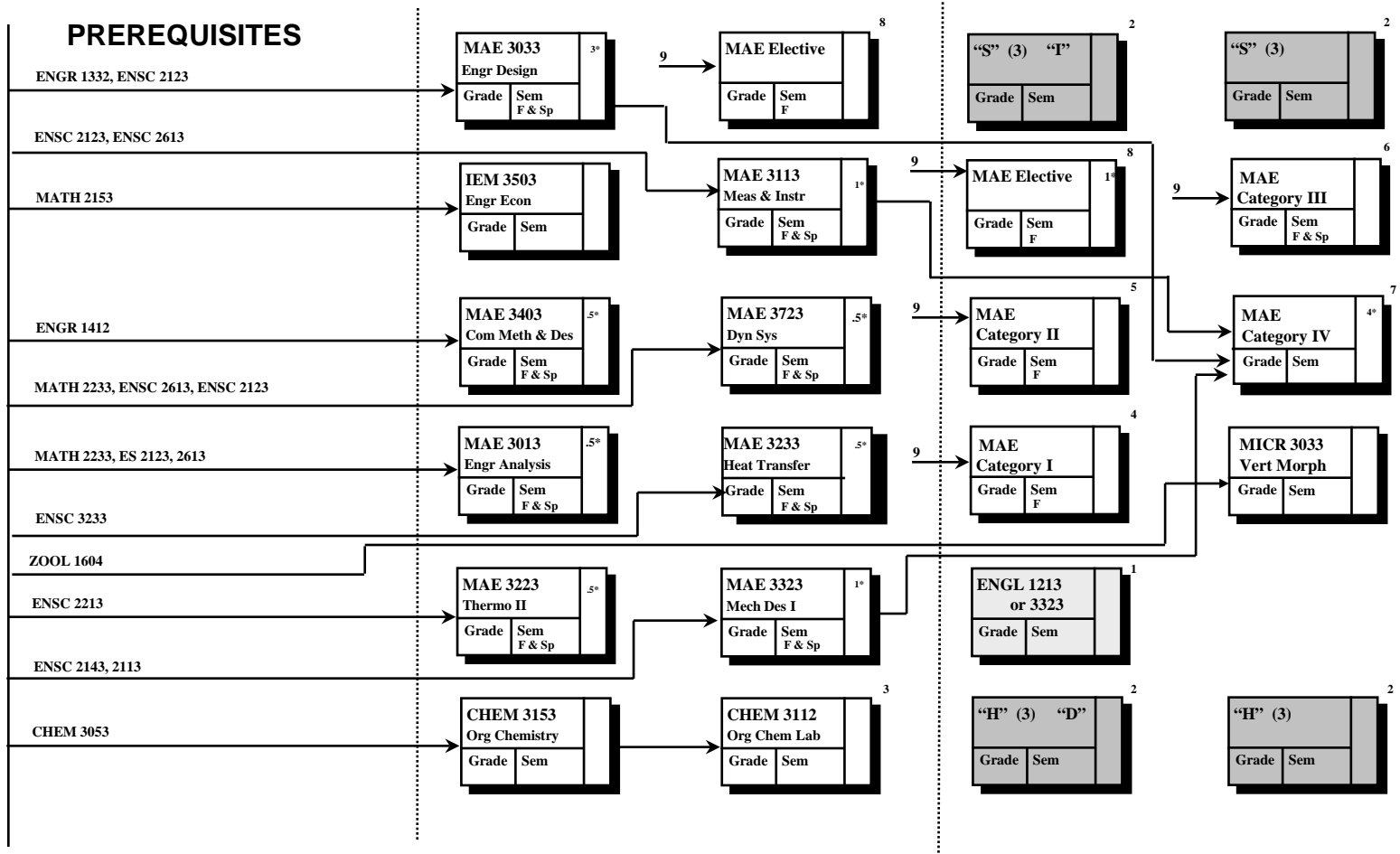
1. Students with less than a "B" in ENGL 1113 or 1313 must take ENGL 1213 or 1413; and may not choose ENGL 3323.

2. Must include 12 hours of humanities "H" and social sciences "S" from the approved college list, including:  
 a) 6 hrs. of "S" (SOC, ANTH, PSYC) b) 3 hrs. of ENGL designated "H".  
 c) 3 hours designated "H" from ART, ENGL, FLL, MUSI, PHIL, or TH. Courses chosen to meet "H" or "S" requirements must include one course of International Dimension "I", and 3 hours must meet the Diversity "D" requirement. The total (H) and (S) program must ensure both breadth and depth as defined in the ABET criteria. Consult the College approved list for courses that qualify.

Shaded Area Indicates Common Engineering Curriculum Requirements

Name: \_\_\_\_\_

Advisor: \_\_\_\_\_



MASTER'S PROGRAMS

Criteria for admission to the Graduate College to pursue the Master of Science or Master of Mechanical and Aerospace Engineering degree include:

1. receive a B.S. degree from an accredited institution (the Bachelor of Science degree or certification in an accredited engineering program is required for the Master of Mechanical and Aerospace Engineering degree.
2. academic performance in undergraduate work at a level that indicates a high probability of success in a graduate program requiring a 3.0/4.0 minimum grade point average.
3. recommended for admission to the Graduate College by a Professional School in the College of Engineering.

For further information, contact the School or the Office of the Dean of Engineering.

A flexible study plan is designed to meet each student's individual goals.

3. Or concurrently with CHEM 3153
4. Category I (Thermal Systems Realization): Select one course from MAE 4243, 4263, 4703, 4713.
5. Category II (Mechanical Systems Realization): Select one course from MAE 4353, 4513, 4363.
6. Category III (Laboratory): Select course from MAE 4273, 4333, 4733.
7. Category IV (Capstone Design): Select course from MAE 4344, 4354.
8. MAE Elective: Courses to be selected from MAE 3123, 3253, 3293, 4053, 4063, 4313, 4623 or from courses in the four categories listed above but not used to satisfy that category.
9. See the OSU Catalog for prerequisites to specific MAE Electives.

NOTES:

- I. A 2.00 GPA is required in all course work listed in the right hand column of the requirement sheet.
- II. A minimum overall 2.00 GPA is required in 4000 level MAE prefix courses.
- III. A minimum grade of "C" must be made in ANY course used as a prerequisite for a required course.
- IV. The following are suggested but not required: BIOC 3653, BIOL 3024; CLML 3014; ZOOL 3114, 3204, 4215. CHEM 1314 is recommended with CHEM 1515 to meet the Oklahoma medical schools' requirement for 9 hrs of inorganic chemistry.