



**2004-05 BS Mechanical Engineering Degree Plan**  
**Premedical Specialization**

|      |       |        |                |
|------|-------|--------|----------------|
| Last | First | Middle | SMU Student ID |
|------|-------|--------|----------------|

|                |              |         |
|----------------|--------------|---------|
| Dallas Address | Phone Number | Advisor |
|----------------|--------------|---------|

**General Education Curriculum (GEC): From fall 2004 through summer 2005**

| Courses                                                       | Hours     | Semester & Year | Grade |
|---------------------------------------------------------------|-----------|-----------------|-------|
| ENGL 1301 – Written English I                                 | 3         |                 |       |
| ENGL 1302 – Written English II                                | 3         |                 |       |
| Perspectives <sup>†</sup> – Arts                              |           |                 |       |
| Perspectives <sup>†</sup> – Literature                        |           |                 |       |
| Perspectives <sup>†</sup> – Religious & Philosophical Thought |           |                 |       |
| Perspectives <sup>†</sup> – History                           |           |                 |       |
| Perspectives <sup>†</sup> – Politics & Economics              |           |                 |       |
| Perspectives <sup>†</sup> – Behavioral Sciences               |           |                 |       |
| Cultural Formations <sup>†</sup>                              |           |                 |       |
| Cultural Formations <sup>†</sup>                              |           |                 |       |
| Human Diversity requirement fulfilled by:                     | *****     |                 |       |
| Wellness I                                                    | 1         |                 |       |
| Wellness II                                                   | 1         |                 |       |
| <b>TOTAL</b>                                                  | <b>23</b> |                 |       |

**MAJOR**

| Courses                                              | Hours     | Semester & Year | Grade |
|------------------------------------------------------|-----------|-----------------|-------|
| ME 1202 – Introduction to Engineering                | 2         |                 |       |
| ME 1102 – ME Laboratory: Introduction to Engineering | 1         |                 |       |
| ME 1305 – Information Technology & Society           | 3         |                 |       |
| ME 2310 – Statics                                    | 3         |                 |       |
| ME 2320 – Dynamics                                   | 3         |                 |       |
| ME 2331 – Fundamentals of Thermal Sciences           | 3         |                 |       |
| ME 2131 – ME Laboratory: Thermal Sciences            | 1         |                 |       |
| ME 2340 – Mechanics of Deformable Bodies             | 3         |                 |       |
| ME 2140 – ME Laboratory: Solid Mechanics             | 1         |                 |       |
| ME 2342 – Fluid Mechanics                            | 3         |                 |       |
| ME 2142 – ME Laboratory: Fluid Mechanics             | 1         |                 |       |
| ME 3332 – Heat & Mass Transfer                       | 3         |                 |       |
| ME 3132 – ME Laboratory: Heat & Mass Transfer        | 1         |                 |       |
| ME 3340 – Engineering Materials                      | 3         |                 |       |
| ME 3370 – Manufacturing Processes                    | 3         |                 |       |
| ME 4338 – Thermal Systems Design                     | 3         |                 |       |
| ME 4370 – Elements of Machine Design                 | 3         |                 |       |
| ME 4380 – Mechanical Engineering Design I            | 3         |                 |       |
| ME 4381 – Mechanical Engineering Design II           | 3         |                 |       |
| ME 5322 – Vibrations                                 | 3         |                 |       |
| Advanced Major Elective <sup>2</sup>                 | 3         |                 |       |
| <b>TOTAL</b>                                         | <b>52</b> |                 |       |

**MATHEMATICS/STATISTICS**

| Courses                                                            | Hours     | Semester & Year | Grade |
|--------------------------------------------------------------------|-----------|-----------------|-------|
| MATH 1337 – Calculus with Analytic Geometry I                      | 3         |                 |       |
| MATH 1338 – Calculus with Analytic Geometry II                     | 3         |                 |       |
| MATH 2339 – Calculus with Analytic Geometry III                    | 3         |                 |       |
| MATH 2343 – Elementary Differential Equations                      | 3         |                 |       |
| STAT 4340 – Statistical Methods for Engineers & Applied Scientists | 3         |                 |       |
| <b>TOTAL</b>                                                       | <b>15</b> |                 |       |

**SCIENCE**

| Courses                                          | Hours     | Semester & Year | Grade |
|--------------------------------------------------|-----------|-----------------|-------|
| BIOL 1401 – Introductory I                       | 4         |                 |       |
| BIOL 1402 – Introductory Biology II              | 4         |                 |       |
| BIOL 3304 – Genetics                             | 3         |                 |       |
| BIOL 3350 – Cell Biology                         | 3         |                 |       |
| CHEM 1303 – General Chemistry I                  | 3         |                 |       |
| CHEM 1113 – General Chemistry Laboratory I       | 1         |                 |       |
| CHEM 1304 – General Chemistry II                 | 3         |                 |       |
| CHEM 1114 – General Chemistry Laboratory II      | 1         |                 |       |
| CHEM 3371 – Organic Chemistry I                  | 3         |                 |       |
| CHEM 3117 – Organic Chemistry Laboratory I       | 1         |                 |       |
| CHEM 3372 – Organic Chemistry II                 | 3         |                 |       |
| CHEM 3118 – Organic Chemistry Laboratory II      | 1         |                 |       |
| PHYS 1303 – Introductory Mechanics               | 3         |                 |       |
| PHYS 1304 – Introductory Electricity & Magnetism | 3         |                 |       |
| PHYS 1105 – General Physics Laboratory I         | 1         |                 |       |
| PHYS 1106 – General Physics Laboratory II        | 1         |                 |       |
| <b>TOTAL</b>                                     | <b>38</b> |                 |       |

**LEADERSHIP ELECTIVE**

| Courses                                                      | Hours    | Semester & Year | Grade |
|--------------------------------------------------------------|----------|-----------------|-------|
| EMIS 3308 or EMIS 3309 or ENCE 3302 or CSE 4360 <sup>3</sup> | 3        |                 |       |
| <b>TOTAL</b>                                                 | <b>3</b> |                 |       |

**Total TCH: \_\_\_\_\_ (Minimum 131)**

**White Degree Plan** (For advising ONLY!)

**Blue Degree Plan** (For graduating seniors ONLY: Due at the beginning of the graduating semester.)

**GRADUATION CERTIFICATION:**

\_\_\_\_\_  
Advisor Date

\_\_\_\_\_  
Dept. Chair or Associate Chair Date

\_\_\_\_\_  
Assistant Dean Date

<sup>1</sup>Engineering majors are required to take 9 hours of Perspectives and 6 hours of Cultural Formations, or 12 hours of Perspectives and 3 hours of Cultural Formations for a total of 15 hours. One of the selections for Perspectives or Cultural Formations must satisfy the Human Diversity Co-Requirement.

<sup>2</sup>The advanced major elective must be one of the biomedical engineering courses ME5332, EE 5340 or EE 5345, or any 3000 level or higher ME course.

<sup>3</sup>EMIS 3308 – Engineering Management; EMIS 3309 – Information Engineering & Global Perspectives; ENCE 3302 – Engineering Communications; CSE 4360 – Technical Entrepreneurship