

2011-12 BS Mechanical Engineering Degree Plan

Premedical Specialization

| Last | First | Middle | SMU Student ID |
|----------------|-------|--------------|----------------|
| | | | |
| Dallas Address | | Phone Number | Advisor |

General Education Curriculum (GEC): From fall 2011 through summer 2012

| General Education Curriculum (GEC). From Ian 2011 unough Summer 2012 | | | |
|--|-------|-----------------|-------|
| Courses | Hours | Semester & Year | Grade |
| ENGL 1301 – Written English I | 3 | | |
| ENGL 1302 – Written English II | 3 | | |
| Perspectives ¹ – Arts | | | |
| Perspectives ¹ – Literature | | | |
| Perspectives ¹ – Religious & Philosophical Thought | | | |
| Perspectives ¹ – History | | | |
| Perspectives ¹ – Politics & Economics | | | |
| Perspectives ¹ – Behavioral Sciences | | | |
| Cultural Formations ¹ | | | |
| Cultural Formations ¹ | | | |
| Human Diversity requirement fulfilled by: | | | |
| Wellness I | | | |
| Wellness II | | | |
| TOTAL | 23 | | |

MAJOR

| 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 – Thermodynamics | 3 | | |
| ME 2131 – ME Laboratory: Thermodynamics | 1 | | |
| EE 2350 - Circuit Analysis I | 3 | | |
| 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 ² | 3 | | |
| TOTAL | 55 | | |

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 | | |
| MATH 3353 – Introduction to Linear Algebra | 3 | | |
| STAT 4340 (CSE 4340, EMIS 4340) or STAT 5340 (EMIS 5370) | 3 | | |
| TOTAL | 18 | | |

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 | _ | |
| TOTAL | 38 | | |

| Total TCH: | (Minimum 134) | | |
|--------------------------------|------------------------------|---|----------------------------------|
| White Degree Plan | (For advising <u>ONLY</u> !) | | |
| Blue Degree Plan (| For graduating seniors ONL | $\underline{\prime}$: Due at the beginning | ing of the graduating semester.) |
| GRADUATION CER | RTIFICATION: | | |
| Advisor | | Date | |
| Dept. Chair or Associate Chair | | Date | |
| Assistant Dean | | Date | |

¹Engineering 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.

²The advanced major elective must be ME5332 or any 3000 level or higher ME course.