

University of Michigan-Flint
B.S. in ENGINEERING, as of FALL 2009

Student's Name _____
 UMID: _____
 Expected Graduation Date _____

Current/Revised Date(s) _____
 Cum G.P.A. _____ Cum Credits _____
 First Term at UM-Flint _____
 Advisor: _____

Note: A grade of "C" or better is required for many courses including some prerequisites courses .

| Computer Science - Chemistry - Math (29 credits) (All apply towards Gen Ed.) | Term | Grade |
|---|------|-------|
| CSC 175 Programming C++ (4) | | |
| CHM 260 Prin Chem I (3) | | |
| CHM 261 Gen Chem Lab (1) | | |
| CHM 262 Prin Chem II (3) | | |
| MTH 121 Calc I (4) | | |
| MTH 122 Calc II (4) | | |
| MTH 220 Elem Linear Algebra (3) | | |
| MTH 222 Multivariate Calc (4) | | |
| MTH 305 Diff Equations (3) | | |

| Physics (10 credits) (Meets Nat Sci Gen Ed requirement) | Term | Grade |
|--|------|-------|
| PHY 243 Prin Phys I (5) | | |
| PHY 245 Prin Phys II (5) | | |

| Engineering Prerequisite Courses (15 credits) | Term | Grade |
|---|------|-------|
| EGR 102 Intro to Engineering (3) | | |
| EGR 165 CAD (ProE) (3) | | |
| EGR 230 Statics (3) | | |
| EGR 260 Mechanics of Solids (3) | | |
| EGR 280 Engineering Materials (3) | | |

| Engineering Core Courses (24 credits) | Term | Grade |
|---|------|-------|
| EGR 310 Engineering Economics (3) | | |
| EGR 315 Machine Design (3) | | |
| EGR 330 Egr Circuit Analysis (3) | | |
| EGR 350 Fluid Mechanics (3) | | |
| EGR 353 Thermodynamics (3) | | |
| EGR 370 Dynamics (3) | | |
| EGR 465 EGR Design I (3) | | |
| EGR 466 EGR Design II (capstone) (3) | | |

| Two EGR Labs from: (2+ credits) | Term | Grade |
|--|------|-------|
| EGR 281 Egr Materials Lab (1) | | |
| EGR 322 Analog/Digital Elec Lab (1) | | |
| EGR 335 Egr Circuit Analysis Lab (1) | | |
| EGR 355 Thermofluids Egr Lab (1) | | |
| EGR 433 Adv Physics Lab II (2) | | |

| Completion of Option A or B (21 credits - See page two for specifics) | |
|---|--|
| Option A: Add'l EGR Sci (21) | |
| Option B: Computer Engineering (21) | |
| Managerial Engineering (24) | |
| Engineering Physics (21) | |
| Environmental Engineering (21) | |

| General Education (min. 50 credits required: 27 credits below PLUS required CSC, CHM, MTH & PHY requirements = 66) | Term | Grade |
|--|------|-------|
| ENG 111 College Rhetoric (3) | | |
| ENG 112 Writing & Reading (3) | | |
| Fine Arts (3) | | |
| Humanities } from 2 (3) | | |
| Humanities } different (3) | | |
| Humanities } disciplines (3) | | |
| Soc Sci } from 2 (ECN 201) (3) | | |
| Soc Sci } different (if mgr, ECN 202) (3) | | |
| Soc Sci } disciplines (3) | | |
| Nat Sci (8 credits) - requirement met with PHY 243 + 245 | | |

| Summary - 128 credits required | Credits |
|---|-----------------|
| CSC, CHM, MTH | 29 |
| PHY | 10 |
| EGR Prereq Courses | 15 |
| EGR Core courses | 24 |
| EGR Labs | 2+ |
| Option A or B | 21 (24 for mgr) |
| General Ed (50 credits required; need 27 in addition to 28 MTH/PHY credits above) | 27 |
| Total | 128 |

