**Mitchell Community College Engineering Advising Form 2017-2018**

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| **Last Name:**  | **First Name:**  | **Middle:**  | **Date:**  |
| **Student ID**  | **Campus:** | **Phone:**  | **GPA program** | **GPA overall** |
| **email:** @students.mitchellcc.edu  | **Working?****Hrs/wk =**  | **Financial Aid** **Veteran****NONE** |
| **Catalog Year:**  |
| **1st choice Proposed Engr Major:** **University:**  |
| **2nd choice Proposed Engr Major:** **University:**  |

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| **COMPETITIVE GPA TO TRANSFER (calculated by the University, and subject to change every year)** **ACCEPTANCE INTO AN ENGINEERING UNIVERSITY PROGRAM IS NOT GUARANTEED**  |
| **ECU****2.5 GPA overall** **Biomedical Engr****Bioprocess Engr****Electrical Engr****Environmental Engr****Industrial & Systems Engr****Mechanical Engr****All ENGR students must take** **MAT 285 Differential Eq.** **and** **MAT 280 Linear Alg.****and****EGR 220 Statics** | **NC A&T****2.5 GPA overall****Chemical, Biological, Bioengineering Engr (CBEN)****Civil, Architectural, Environmental Engr (CAEE)****Computer Science (COMP)****Electrical and Computer Engr(ELEN)****Industrial and Systems Engr (INEN)****Mechanical Engr (MEEN)****Mechanical Engineering Aerospace option** | **NCSU****FALL TRANSFERS ONLY****3.5+ GPA overall for****BioEngr, Biomed (separate application), Chem E. Civil, Comp E, Comp. Sci, Construc, Elec.E, Enviro, Industrial, Matr’l, Nuclear, Paper, Textiles****3.8+ GPA overall for Mech E and Aerospace****Required Calculus for** A**LL Engineering Majors:****MAT 273 & MAT 285****Required Calculus for****Computer Science****MAT 273 &** **MAT 280** | **UNC CHARLOTTE****2.5 for the following** **Civil & Environmental****Computer Science** **Electrical & Computer****Systems & Engr Management****3.0 GPA overall for all Mechanical degrees****Mechanical concentration biomedical****Mechanical Engineering concentration** **Energy Systems****Mechanical Engineering concentration****Motorsports** | **UNC ASHEVILLE****3.0 GPA overall****Mechatronics****Joint program with NCSU****3.0 GPA** **must contact UNC Asheville** |
| **WESTERN CAROLINA****2.5 GPA overall****Electrical Engineering****Engineering with concentration in Mechanical** **accredited 2017** |
| **CHAPEL HILL****3.5 GPA****Biomedical****Computer Science** |

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| **EXAMPLE SEMESTER BY SEMESTER PLAN – STARTING AT MAT 271 CALCULUS I** |
| **1st Year FALL** | **1st Year SPRING** | **1st Year SUMMER** |
| MAT 271 Calculus I | 4 | ENG 112 Writing/Research | 3 | Soc/Behv Elective | 3 |
| ENG 111 Writing and Inquiry | 3 | MAT 272 Calculus II | 4 |  |  |
| CHM 151 Chemistry I | 4 | COM 231 Public Speaking | 3 |  |  |
| EGR 150 Intro to Engineering | 2 | ECO 251 Microeconomics  | 3 |  |  |
| CSC 134 C++ Programming | 3 | ACA 122 College Transfer Success | 1 |  |  |
| Total SHC | 16 | Total SHC | 14 | Total SHC | 3 |
| **2nd Year FALL** | **2nd Year SPRING** | **2nd Year SUMMER** |
| MAT 273 Calculus III | 4 | PHY 252 Physics II | 4 |  |  |
| PHY 251 Physics I | 4 | MAT 285 Differential Equations | 3 |  |  |
| MAT 280 Linear Algebra | 3 | EGR Elective (220, 212) | 3 |  |  |
| ENG 231 American Literature I | 3 | DFT 170 Engineering Graphics | 3 |  |  |
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| Total SHC | 14 | Total SHC | 13 |  |  |
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| **2017-2018 MITCHELL COMMUNITY COLLEGE ASSOCIATES IN ENGINEERING TRANSFERRABLE COURSES** **TO ENGINEERING UNIVERSITIES IN NORTH CAROLINA** |
| **Courses should be selected from courses classified as premajor, elective or general education** **courses within the Comprehensive Articulation Agreement.**  |
| ***Students must meet the receiving university's foreign language and/or physical education requirements, if applicable, prior to or after transfer to the senior institution.*** |
| **AS degree SHC** | **Course Requirements: General Education Hours** | **Total****SHC** | **Course Taken** | **Transfer EGR required** | **Grade rec’vd** |
| **6 SHC ENGLISH COMPOSITION****Take both**  | **ENG 111 Writing and Inquiry** | 3 | **ENG 111** | **required** |  |
| **ENG 112** **Writing and Research in the Disciplines** | 3 | **ENG 112** | **required** |  |
| **Additional Humanities, Fine Arts, Communications, and Social & Behavioral Science courses may be taken to meet requirements at the transfer University.** |
| **3 SHC HUMANITIES****Choose one** | ENG 231 American Lit I or ENG 232 American Lit II | 3 |  | **choose one** |  |
| **PHI 240 Ethics *check with advisor, may not be accepted at all Universities.***  | 3 |  |  |
| **REL 110 World Religion\*** | 3 |  |  |
| ***\*REL 110 will transfer to all Engineering Programs at all five UNC Institutions that offer undergraduate engineering programs. May not transfer to other undergraduate degree programs*** |
| **3 SHC****FINE ARTS** **AND COMMUNICATION****Choose one** | COM 231 Public Speaking  | 3 |  | **choose one** |  |
| ART 111 Art Appreciation or ART 114, Art Survey I or ART 115 Art Survey II | 3 |  |  |
| MUS 110 Mus. Appr. or MUS 112 Intro to Jazz | 3 |  |  |
| **3 SHC SOC & BE** | **ECO 251 Micro Econ.**  | 3 | **ECO 251** | **required** |  |
| **3 SHC** **SOCIAL & BEHAVIORAL SCIENCE** **Choose one** | HIS 111, or 112, (World Civ.I, II) or HIS 131 or 132 (American His. I and II) | 3 |  | **choose one** |  |
| POL 120 American Government  | 3 |  |  |
| **PSY 150 General Psychology** | 3 | **Recommended to take PSY 150 or SOC 210 for NCSU** |  |
| **SOC 210 Intro. to Sociology** | 3 |  |
| **PRE-REQ MATH courses** | MAT 171 Pre-Calculus I |  |  |  |  |
| MAT 172 Pre-Calculus II |  |  |  |  |
| **12 SHC****MATHEMATICS** | **MAT 271 Calculus I *pre-req MAT 172***  | 4 | **MAT 271** | **required** |  |
| **MAT 272 Calculus II**  | 4 | **MAT 272** | **required** |  |
| **MAT 273 Calculus III**  | 4 | **MAT 273** | **required** |  |
| **12 SCH****Natural Sciences** | **CHM 151 General Chemistry I *pre-req MAT 171*** **(Must take CHM 090 or 092 if no Chem in HS).**  | 4 | **CHM 151** | **required** |  |
| **PHY 251 Physics I *pre-req MAT 271 co-req MAT 272***  | 4 | **PHY 251** | **required** |  |
| **PHY 252 General Physics II**  | 4 | **PHY 252** | **required** |  |
| **TOTAL GENERAL EDUCATION HOURS REQ.: 42 SHC** |
| **3 SHC****required hours** | **ACA 122 College Transfer Success *take in 1st 30 hours*** | 1 | **ACA 122** | **required** |  |
| **EGR 150 Intro to Engineering** | 2 | **EGR 150** | **required** |  |
| **15 SCH****OTHER REQUIRED HOURS****Students should choose courses appropriate to the specific University and Engineering Major reqs.** | **MAT 285 Differential Equations *pre-req MAT 272* ALL ENGR** **MAT 280 Linear Algebra**  | 33 |  | **required** |  |
| CSC 134 C++  | 3 |  |  |  |
| CSC 151 JAVA (*Comp. Sci majors need to take)* | 3 |  |  |  |
| BIO 111 General Biology *(take for Chem E, Biomed)* | 4 |  | **choose one if needed** |  |
| CHM 152 Chem II *(take for Chem E, Biomed)* | 4 |  |  |
| DFT 170 Engineering Graphics *(CAD, Solid Works)*  | 3 |  |  |  |
| EGR 212 Logic Systems Design I pre-req MAT 272 & PHY 251*(Electrical , Computer Engr. and Comp Sci)* | 3 |  |  |  |
| EGR 220 Statics *pre-req PHY 251, co-req MAT 273*, *(req. for all Mech., Civil, Enviro, Industrial & ECU Engineering)* | 3 |  |  |  |
| **HUM 110 Technology and Society**  | 3 |  |  |  |
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|  |  | **Highly recommended** |  |  |
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| **OTHER REQ. ENGINEEERING DEGREE HOURS 18 SHC** |
| **TOTAL SEMESTER HOURS CREDIT (SHC) in PROGRAM: 60 - 63 SHC** |
| 2015-2016 TENTATIVE SEMESTER-BY-SEMESTER PLAN | SPRING | SUMMER  |
| FALL  |  |  |  |  |  |
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**NOTES**

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| **Other Courses not required for Associates in Engineering but transfer to Universities in specific Engineering majors****CHM 251 Organic Chem I, CHM 252 Organic Chem II, GEL 111 Geology,****and additional Psychology, Social Science, Art or Music courses may be taken but not paid for by financial aid.**  |
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 ***Semester to* Apply for admission to (Univ)\_\_\_\_\_\_\_\_\_ for *Semester***