

BEng in Computer Engineering

## Major Requirements

| Engineering Fundamental |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\left\lvert\, \begin{gathered} \text { comp } \\ \text { coup } \\ \text { comp } \end{gathered}\right.$ | $\begin{aligned} & 10220 \\ & 10202 \\ & 102020 \end{aligned}$ |  | 3 3 3 | 3 | $\vdots$ |  |  |  |  |  |  |  | ${ }^{3}$ | This course will also be used to substitute ISOM 2010 |
| ENGG | 1010 | Academic Orienation | - | 0 | 0 ; |  |  |  |  |  |  |  | 0 |  |
| lang | 2230 | Technical Communication | 3 |  | , | 3 |  |  |  |  |  |  | ${ }^{3}$ |  |
|  | 10121013 <br> 1014 <br> 1020 <br> 1023 <br> 1023 <br> 1024${ }_{10}$ |  | $\begin{aligned} & 4 \\ & 3 \\ & 3 \\ & 4 \\ & 3 \\ & \hline \end{aligned}$ | 3 |  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  |  |  |  |  |  |  |  | 6 |  |
| Math | 2011 | Introduction to Mulivarabie Calculus | 3 |  | ! |  | 3 |  |  |  |  |  | 3 |  |
| матн | 211 | Matrix Algebra and Appicicaions | 3 |  | i |  | 3 |  |  |  |  |  | 3 |  |
| $\begin{aligned} & \text { purs } \\ & \text { Purs } \end{aligned}$ | ${ }_{1312}^{1112}$ | Note: PHYS1112 OR PHYS1312 General Physics I with Calculus Honors General Physics I | 3 <br> 3 | 3 | ! |  |  |  |  |  |  |  | ${ }^{3}$ |  |
| ${ }^{\text {PHYS }}$ | ${ }_{1314}^{1114}$ |  | 3 |  | ! |  |  | ${ }^{3}$ |  |  |  |  | 3 |  |
| SENG |  | Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) | ${ }^{3.4}$ | (3) | i |  |  |  |  |  |  |  | 0 |  |
| Required credits for Engineering Fundamental Courses |  |  | 25-29 |  | , |  |  |  |  |  |  |  | 24 |  |
| Major Required Courses and Electives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CPEE |  | Academic and Protessional Development | 0 |  | 1 | 0 |  |  |  |  |  |  | 0 |  |
| CPEG | 3330 | Academic and Profossional Development II | 0 |  | 1 |  | 0 | 0 |  |  |  |  | 0 |  |
| $\begin{gathered} \text { conp } \\ \text { comp } \\ \text { comp } \end{gathered}$ |  | Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++ Object-Oriented Programming and Data Structures Honors Object-Oriented Programming and Data Structures | 5.8 <br> 4 <br> 4 <br> 4 <br> 5 |  | $!^{4}$ |  | 4 |  |  |  |  |  | 8 |  |
| $\begin{gathered} \text { comp } \\ \text { ELELCO } \end{gathered}$ | ${ }_{2651}^{261}$ | Note: COMP2611 OR ELEC2350 Computer Organization Introduction to Computer Organization and Design | ${ }_{4}^{4}$ |  | ! | 4 |  |  |  |  |  |  | 4 |  |
| $\begin{gathered} \text { comp } \\ \text { comp } \\ \text { coicc } \end{gathered}$ | $\begin{aligned} & 2711 \\ & \left.\begin{array}{l} 2711 \\ 27800 \end{array}\right) \end{aligned}$ |  |  |  | i |  |  |  | 4 |  |  |  | 4 |  |
| comp | 3511 | Opeating Ssyiems | 3 |  | 1 |  |  |  |  | 3 |  |  | 3 |  |
|  | 4521 <br> and <br> and <br> and <br> 4330 <br> 4302 |  | 3 <br> 3 <br> 4 <br> 3 <br> 3 <br> 3 |  |  |  |  |  |  |  | ${ }^{3}$ |  | 3 |  |
| CPEG <br> CPGG <br> CPGG <br> CPGG <br> CPFGG <br> CPRG | 1971401 <br> 4002 <br> 4911 <br> 4911 <br> 49124910 | AND CPEG1971] OR CPEG4910 industrial Experience <br> Computer Engineering Final Year Project in COMP Computer Engineering Final Year Thesis in COMP Computer Engineering Final Year Thesis in ELEC Co-op Program | $\begin{aligned} & 0 \\ & 6 \\ & 6 \\ & 6 \\ & 6 \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  | ${ }^{3}$ | 3 | 6 |  |
| ELEC | 1100 | Introution to leetro-Robot Design | 4 |  | $!$ |  |  |  |  |  |  |  | 4 |  |
|  | $\begin{aligned} & 1200 \\ & 2000 \\ & 2420 \end{aligned}$ | ses out or 5) <br> System View of Communications: from Signals to Packets Signals and Systems Electronic Circuits <br> Electronic Circuits | $\circ$ $\stackrel{4}{4}$ 4 4 |  | $i$ | 4 |  | 4 |  |  |  |  | 8 |  |
| ELEC | 3300 | Infroduction to Embedided Systems | 4 |  | I |  |  |  |  | 4 |  |  | 4 |  |
| ENG6 | 2010 | Engineeing Seminaras Seies | 0 |  | 10 | 0 | 0 | 0 |  |  |  |  | 0 |  |
| Lang | ${ }_{4031}^{4030}$ | Technical Communication II for CSE \& CPEG Technical Communication II for ECE \& CPEG | 3 <br> 3 |  | ! |  |  |  |  |  | ${ }^{3}$ |  | 3 |  |
| compreLec |  | Area Courses (At least 4 courses from the specified elective list, of which at least $Z$ courses should be taken from one single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective | 15 |  | , |  |  |  |  | 4 | ${ }^{4}$ | 4 | 15 |  |
| Required credits for Major Requirements Courses and Electives |  |  | 59.63 |  | : |  |  |  |  |  |  |  | 62 |  |
| BBA in General Business Management |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| School Requirements |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ACCT | 2210 | PPinoiples of Accounting 1 | 3 |  | 13 |  |  |  |  |  |  |  | 3 |  |
| ACct | 2200 | Prinipipes of Accounting II | 3 |  | - |  |  | 3 |  |  |  |  | 3 |  |
| $\begin{aligned} & \text { ECON } \\ & \text { ECON } \end{aligned}$ | ${ }_{2113}^{2103}$ | Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics | ${ }_{3}^{3}$ |  | I |  |  |  |  |  |  |  | ${ }^{3}$ |  |
| $\begin{aligned} & \text { ECon } \\ & \text { ECON } \end{aligned}$ | $\begin{aligned} & 2123 \\ & 3123 \end{aligned}$ | $\begin{aligned} & \text { Note: ECUN } 2123 \text { UR ECUN } 3123 \\ & \text { Macroeconomics } \\ & \text { Macroeconomic Theory I } \end{aligned}$ | ${ }_{3}^{3}$ |  | ! |  | ${ }^{3}$ |  |  |  |  |  | ${ }^{3}$ |  |
| FINA | 2303 | Financial Management | 3 |  | + | 3 |  |  |  |  |  |  | 3 |  |
| 15 M | 2010 | Introduction to itromation Systems | 3 | - | $\cdots$ | $\cdots$ | $\cdots$ | $\cdots$ | $\cdots$ | $\cdots$ | $\cdots$ | - | 0 |  |
| 150 M | 2020 | Coding for Eusiness | 1 |  |  |  | , |  |  |  |  |  | 1 |  |
| 150 M | 2500 | Business Staisitics | 3 |  | 3 |  |  |  |  |  |  |  | 3 |  |
| 150 M | 2600 | Introuction 0 Business Analyics | 1 |  | - |  | 1 |  |  |  |  |  | 1 |  |
| Isom | 2700 | Operaions Management | 3 |  |  |  |  | 3 |  |  |  |  | 3 |  |
| MARK | 2120 | Markeing Management | , |  |  | 3 |  |  |  |  |  |  | 3 |  |
| м ${ }^{\text {¢ }}$ | 2010 | Business Elicis and the Individual | 2 |  | 1 |  | 2 |  |  |  |  |  | 2 |  |
| MGMT | 2110 | Organizational Eehavior | 3 |  | i |  | 3 |  |  |  |  |  | 3 |  |
| MGMT | 2130 | Business Etics and Social Responsiblity | 2 |  |  |  |  |  |  |  | 2 |  | 2 |  |
| SBuT | ${ }^{1111}$ | Business Student nduction | 0 | $\cdots$ | $\cdots$ | $\cdots$ | $\cdots$ | -- | - | $\cdots$ | $\cdots$ | - | 0 | Waved for dop students |
| Labu | 2040 | Business Case Analyses | 3 |  | - | 3 |  |  |  |  |  |  | 3 |  |
| ${ }^{\text {Labu }}$ | 2060 | Effective Communicaion in Business | 3 |  |  |  |  | 3 |  |  |  |  | 3 |  |
|  |  | Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I | 3.4 <br> 3 <br> 3 <br> 4 <br> 3 <br> 4 <br> 3 | ${ }^{\text {(3) }}$ |  |  |  |  |  |  |  |  | 。 |  |
| Required credits for School Requirements |  |  | 43.44 |  | i |  |  |  |  |  |  |  | 39 |  |



## Requirements for Dual Degree Program

| Required Courses |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEMG | 1010 | Technology and Management Professional Activities | 0 | 0 | 0 | ' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TEMG | 3950 | Case-based Problem Solving | 2 |  | 2 | , |  |  |  |  |  |  |  |  | 2 |
| Required credits for Additional Requirements |  |  | 2 |  |  | 1 |  |  |  |  |  |  |  |  | 2 |
| University CORE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CORE | C3-C12 | UCORE - Others | 30 | 6 | 6 |  |  |  |  |  | 9 | 9 |  |  | 30 |
| CORE | C1\&C2 | U CORE-English Language | 6 | 3 | 3 |  |  |  |  |  |  |  |  |  | 6 |
|  |  | Sub-total for University CORE | 36 |  |  | 1 |  |  |  |  |  |  |  |  | 36 |
|  |  |  |  | Term load (excl. free credits) |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 18 | 20 | 1 | 20 | 20 | 20 | 19 | 20 | 20 | 18 | 17 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes: <br> I<< Declaration of majo <br> ( ) indicates the reuse of the same course to fulfill more than one requirement. <br> --- denotes the course/requirement is either waived or substituted <br> \#\# To graduate, students should complete all requirements as specified for DDP. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Remart |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

