### Required Courses Specified by
College of Science and Engineering and/or Respective Departments

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| Architecture and Civil Engineering (ACE) | **College-specified Courses under the Gateway Education (GE) Requirement (Mathematics and Computing Courses) – 9 credit units**  
• MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3 credit units)  
• MA1201 Calculus and Basic Linear Algebra II / MA1301 Enhanced Calculus and Linear Algebra II (3 credit units) | • CA1166 Professionals and Society (3 credit units)  
• CA1167 Engineering Communication (3 credit units)  
• AP1202 General Physics II (3 credit units)  
• AP1203 General Physics III (3 credit units) |
| Physics and Materials Science (AP) | | No course specified by this department |
| Biology and Chemistry (BCH) | • CS1102 Introduction to Computer Studies / CS1302 Introduction to Computer Programming (3 credit units) | • EE1001 Foundations of Digital Techniques and Data Analysis (3 credit units)  
• EE1002 Principles of Electronic Engineering (3 credit units) |
| Electronic Engineering (EE) | **College Requirement (Science Courses) – 6 credit units**  
Choose two from the following three subject areas:  
• AP1201 General Physics I (3 credit units)  
• BCH1100 Chemistry (3 credit units)  
• BCH1200 Discovery in Biology (3 credit units) | No course specified by this department |
| Mechanical and Biomedical Engineering (MBE) | | |
| Biomedical Sciences (BMS) | Not applicable, due to students’ direct admission to Bachelor of Science in Biomedical Sciences | |
| Computer Science (CS) | Not applicable, due to students’ direct admission to Bachelor of Science in Computer Science | |
| Mathematics (MA) | Not applicable, due to students’ direct admission to Bachelor of Science in Computing Mathematics | |
| Systems Engineering and Engineering Management (SEEM) | Not applicable, due to students’ direct admission to Bachelor of Science in Systems Engineering and Management | |

Students will be considered as top 40% based on the following selection criteria:

(i) Cumulative GPA at the end of Semester B 2016/17; and  
(ii) No failed grades in any courses in Semester A and B 2016/17; and  
(iii) Completion of courses of at least 30 credit units in Semesters A and B 2016/17, including the number of credit units specified by the College of Science & Engineering and/or respective Department for the required courses as specified in the above.