Bachelor of Engineering (Honours)
Electronic and Communication Systems Major

Instructions
1. Make sure that you are familiar with the program requirements of your degree.
2. Make sure you are following the program requirements for the academic year that you commenced your degree.
3. Fill in the boxes once you have successfully passed the course (or if you have been awarded course credit or exemption).
4. Ensure that you have completed the listed requirements for each section.
5. Always check your enrolments with CECS Student Services to ensure that you are on track to graduate.

The Bachelor of Engineering (Honours) requires completion of 192 units, of which:

A maximum of 10 courses may come from completion of 1000-level courses.

1  2  3  4  5  6  7  8  9  10

Compulsory Courses
Complete the 14x courses listed below

- PHYS1013 Physics of Materials (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 1
  Prerequisites: N/A

- ENGN1211 Discovering Engineering (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 1
  Prerequisites: N/A

- ENGN1217 Introduction to Mechanics (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 2
  Prerequisites: N/A

- ENGN1218 Introduction to Electronics (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 2
  Prerequisites: N/A

- ENGN2217 Mechanical Systems and Design (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 1
  Prerequisites:
  - Successful completion of ENGN1217

- ENGN2218 Electronic Systems and Design (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 1
  Prerequisites:
  - Successful completion of ENGN1218

- ENGN2219 Computer Architecture and Simulation (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 1
  Prerequisites:
  - Successful completion of COMP1100 or COMP1130 or COMP1730

- ENGN2222 Engineering Thermodynamics (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 2
  Prerequisites:
  - Successful completion of MATH1013 or MATH1014

- ENGN2228 Signals and Systems (6 units)
  - completed at the ANU
  - awarded as credit
  - awarded as exemption
  Availability: Semester 2
  Prerequisites:
  - Successful completion of MATH1013 or MATH1014
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ENGN2300</td>
<td>Engineering Design 2: Systems Approaches for Design</td>
<td>6</td>
<td>Successful completion of ENGN1211</td>
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<td>ENGN2301</td>
<td>Engineering Design 3: Systems Approaches for Analysis</td>
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<td>Successful completion of ENGN2300</td>
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<td>ENGN3300</td>
<td>Engineering Design 4A: Systems Approaches for Management</td>
<td>6</td>
<td>Successful completion of ENGN2301</td>
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<td>ENGN3301</td>
<td>Engineering Design 4B: Systems Approaches for Operations</td>
<td>6</td>
<td>Successful completion of ENGN3300</td>
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<td>MATH1013</td>
<td>Mathematics and Applications 1</td>
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<td>Successful completion of ENGN1211 or MATH1115 or MATH1113</td>
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<td>MATH1115</td>
<td>Advanced Mathematics and Applications 1</td>
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<td>Successful completion of MATH1115 with a grade of ≥ 60% or MATH1113 with a grade of ≥ 80%</td>
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<td>COMP1100</td>
<td>Programming as Problem Solving</td>
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<td>COMP1730</td>
<td>Programming for Scientists</td>
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<td>MATH1014</td>
<td>Mathematics and Applications 2</td>
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<td>MATH1116</td>
<td>Advanced Mathematics and Applications 2</td>
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<td>ENGN4300</td>
<td>Capstone Design Project</td>
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<td>ENGN4350</td>
<td>Individual Project</td>
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<td>ENGN3226</td>
<td>Digital Communications</td>
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<td>ENGN3539</td>
<td>Computer Networks</td>
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<td>ENGN4536</td>
<td>Wireless Communications</td>
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<td>ENGN4537</td>
<td>Digital Signal Processing</td>
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<tr>
<td>ENGN3213</td>
<td>Digital Systems and Microprocessors</td>
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Prerequisites:
- Successful completion of ENGN2228
- Successful completion of ENGN2219
- Successful completion of ENGN3226
- Successful completion of ENGN2228
- ENGN2218 or COMP2300
- ENGN2218 or COMP2300
- ENGN2218 or COMP2300
- ENGN2218 or COMP2300

Before you enrol into this course you must:
- Have a weighted average mark of 75%
- Find a Project Supervisor
- Complete an 'Independent Study Contract'
- Obtain approval from the Course Convenor
### Unspecified Elective Courses

**Complete 8x ANU-wide courses**

- **ANU-wide course** (6 units)
  - Course: ___________________________
  - ☐ completed at the ANU  ☐ awarded as credit

- **ANU-wide course** (6 units)
  - Course: ___________________________
  - ☐ completed at the ANU  ☐ awarded as credit

- **ANU-wide course** (6 units)
  - Course: ___________________________
  - ☐ completed at the ANU  ☐ awarded as credit

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  - ☐ completed at the ANU  ☐ awarded as credit

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  - Course: ___________________________
  - ☐ completed at the ANU  ☐ awarded as credit

- **ANU-wide course** (6 units)
  - Course: ___________________________
  - ☐ completed at the ANU  ☐ awarded as credit

**Additional electives as a result of awarded course exemption(s)**

You are required to complete an additional ____ COMP-coded elective courses

You are required to complete an additional ____ ANU-wide elective courses
<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1 2020</th>
<th>PHYS1013 Physics of Materials</th>
<th>ENGN1211 Discovering Engineering</th>
<th>COMP1100 Programming as Problem Solving</th>
<th>MATH1013 Mathematics and Applications 1</th>
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<td>ENGN2222 Engineering Thermodynamics</td>
<td>ENGN2301 Engineering Design 3: Systems Approaches for Analysis</td>
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<td>YEAR 2</td>
<td>Semester 1 2021</td>
<td>ENGN2217 Mechanical Systems and Design</td>
<td>ENGN2218 Electronic Systems and Design</td>
<td>ENGN2219 Computer Architecture and Simulation</td>
<td>ENGN2300 Engineering Design 2: Systems Approaches for Design</td>
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<td>ENGN3200 Engineering Design 4A: Systems Approaches for Management</td>
<td>ENGN3226 Digital Communications</td>
<td>ENGN3539 Computer Networks</td>
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<td>ENGN3300 Engineering Design 4B: Systems Approaches for Operations</td>
<td>ENGN4536 Wireless Communications</td>
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<td>YEAR 3</td>
<td>Semester 1 2022</td>
<td>ENGN3300 Engineering Design 4A: Systems Approaches for Management</td>
<td>ENGN3226 Digital Communications</td>
<td>ENGN3539 Computer Networks</td>
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<td>ENGN4300 Capstone Design Project</td>
<td>ENGN3213 Digital Systems and Microprocessors</td>
<td>ANU-wide elective course</td>
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<td>Semester 2 2022</td>
<td>ENGN4350 Individual Project</td>
<td>ANU-wide elective course</td>
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<td>ENGN4300 Capstone Design Project</td>
<td>ENGN4625 Power Systems and Power Electronics</td>
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Please make sure to enrol and complete ENGN3100 Practical Experience in your final year.
# 2020 Suggested Study Plan – Semester 2 Commencement

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 2 2020</th>
<th>COMP1100 Programming as Problem Solving</th>
<th>MATH1013 Mathematics and Applications 1</th>
<th>ANU-wide elective course</th>
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<td>COMP1730 Programming for Scientists</td>
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<td>Semester 1 2021</td>
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<td>PHYS1013 Physics of Materials</td>
<td>ENGN1211 Discovering Engineering</td>
<td>MATH1014 Mathematics and Applications 2</td>
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<td>Semester 2 2021</td>
<td>ENGN1217 Introduction to Mechanics</td>
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<td>Semester 1 2022</td>
<td>ENGN2217 Mechanical Systems and Design</td>
<td>ENGN2218 Electronic Systems and Design</td>
<td>ENGN2300 Engineering Design 2: Systems Approaches for Design</td>
<td>ENGN2228 Signals and Systems</td>
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<td>YEAR 3</td>
<td>Semester 2 2022</td>
<td>ENGN2301 Engineering Design 3: Systems Approaches for Analysis</td>
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<td>Semester 1 2023</td>
<td>ENGN3300 Engineering Design 4A: Systems Approaches for Management</td>
<td>ENGN3226 Digital Communications</td>
<td>ENGN4537 Digital Signal Processing</td>
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<td>YEAR 4</td>
<td>Semester 2 2023</td>
<td>ENGN4300 Capstone Design Project (permission required to complete ENGN3301 as a co-requisite)</td>
<td>ENGN3301 Engineering Design 4B: Systems Approaches for Operations</td>
<td>ENGN4536 Wireless Communications</td>
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<td>Semester 1 2024</td>
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