

These programme regulations should be read in conjunction with the University's [core regulations for undergraduate programmes](#), and the [marking and classification conventions for undergraduate programmes](#).

**MEng General Engineering (H100), MEng General Engineering with Year Abroad (H106), MEng General Engineering with Placement Year (H108)**

**MEng Engineering (Civil) (H211), MEng Engineering (Civil) with Year Abroad (H212), MEng Engineering (Civil) with Placement Year (H213)**

**MEng Engineering (Mechanical) (H311), MEng Engineering (Mechanical) with Year Abroad (H312), MEng Engineering (Mechanical) with Placement Year (H313)**

**MEng Engineering (Aeronautical) (H411), MEng Engineering (Aeronautical) with Year Abroad (H412), MEng Engineering (Aeronautical) with Placement Year (H413)**

**MEng Engineering (Electrical) (H511), MEng Engineering (Electrical) with Year Abroad (H512), MEng Engineering (Electrical) with Placement Year (H513)**

**MEng Engineering (Electronic) (H711), MEng Engineering (Electronic) with Year Abroad (H712), MEng Engineering (Electronic) with Placement Year (H713)**

**MEng Engineering (Renewable Energy) (H811), MEng Engineering (Renewable Energy) with Year Abroad (H812), MEng Engineering (Renewable Energy) with Placement Year (H813)**

**MEng Engineering (Bioengineering) (H911), MEng Engineering (Bioengineering) with Year Abroad (H912), MEng Engineering (Bioengineering) with Placement Year (H913)**

1. This programme is available at Durham City, in a full-time mode of study.

#### **Level 1 (Certificate)**

2. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Solid Mechanics and Structures 1 #	<a href="#">ENGI1091</a>	20
Thermodynamics & Fluid Mechanics 1 #	<a href="#">ENGI1111</a>	20
Electronic and Electrical Systems 1 #	<a href="#">ENGI1161</a>	20
Engineering Practice 1 #	<a href="#">ENGI1171</a>	20
Mathematics for Engineers and Scientists #	<a href="#">MATH1551</a>	20

3. Candidates shall also study and be assessed in modules to the value of 20 credits offered by any Boards of Studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).

#### **Level 2 (Diploma)**

4. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Electronics 2	<a href="#">ENGI2181</a>	20
Electrical Engineering 2	<a href="#">ENGI2191</a>	20
Engineering Design 2 ~	<a href="#">ENGI2201</a>	20
Engineering Mathematics 2 ~	<a href="#">ENGI2211</a>	20
Solid Mechanics and Structures 2	<a href="#">ENGI2221</a>	20
Thermodynamics and Fluid Mechanics 2	<a href="#">ENGI2231</a>	20

### Year 3 (Year Abroad)

5. During the third year candidates shall study and be assessed in a university abroad under the Turning scheme or a similar exchange programme. Students who are considered by the subject Board of Examiners to have made satisfactory progress, judged by reference to each student's learning agreement, will continue to Level 3 of a MEng with year abroad programme. Otherwise, they will transfer to a MEng programme without year abroad.

### Level 3 (Degree)

#### **EITHER (H211, H212, H213 Engineering (Civil) Programmes)**

6. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Structures and Geomatics 3	<a href="#">ENGI3301</a>	20
Geotechnics 3	<a href="#">ENGI3311</a>	20
Environmental Engineering 3	<a href="#">ENGI3341</a>	20
Civil Design 3 ~	<a href="#">ENGI3401</a>	20
Solid Mechanics 3	<a href="#">ENGI3411</a>	20
Materials 3	<a href="#">ENGI3471</a>	20

#### **OR (H511, H512, H513 Engineering (Electrical) Programmes AND H811, H812, H813 Engineering (Renewable Energy) Programmes Route A)**

7. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Thermodynamics and Fluid Mechanics 3	<a href="#">ENGI3291</a>	20
Engineering Design 3 ~	<a href="#">ENGI3351</a>	20
Electrical Engineering 3	<a href="#">ENGI3371</a>	20
Control and Signal Processing 3	<a href="#">ENGI3391</a>	20
Electronics and Communications 3	<a href="#">ENGI3451</a>	20
Power Semiconductor Devices 3	<a href="#">ENGI3481</a>	20

#### **OR (H711, H712, H713 Engineering (Electronic) Programmes)**

8. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Semiconductor Physics and Devices 3	<a href="#">ENGI3331</a>	20
Engineering Design 3 ~	<a href="#">ENGI3351</a>	20
Electrical Engineering 3	<a href="#">ENGI3371</a>	20
Control and Signal Processing 3	<a href="#">ENGI3391</a>	20
Electronics and Communications 3	<a href="#">ENGI3451</a>	20
Digital Electronics and Digital Signal Processing 3	<a href="#">ENGI3491</a>	20

#### **OR (H311, H312, H313 Engineering (Mechanical) Programmes AND H411, H412, H413 Engineering (Aeronautical) Programmes AND H811, H812, H813 Engineering (Renewable Energy) Programmes Route B) AND H911, H912, H913 Engineering (Bioengineering)**

9. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Thermodynamics and Fluid Mechanics 3	<a href="#">ENGI3291</a>	20
Engineering Design 3 ~	<a href="#">ENGI3351</a>	20
Electrical Engineering 3	<a href="#">ENGI3371</a>	20
Control and Signal Processing 3	<a href="#">ENGI3391</a>	20
Solid Mechanics 3	<a href="#">ENGI3411</a>	20
Materials 3	<a href="#">ENGI3471</a>	20

### Year 4 (Placement Year)

10. The industrial placement year offers the candidate the opportunity to gain insight into how to apply engineering knowledge in a business context and to help with employer engagement early in their recruitment pipeline. A placement year requires a minimum of forty (40) weeks of work. The placement begins in the summer following the completion of the penultimate year of study. The placement year is marked as pass / fail only based on a Poster Presentation and an end of placement questionnaire. The Department of Engineering and its industrial partners endeavour to provide as many placements as possible but cannot guarantee these for all candidates. Alternatively, students may seek and propose placement opportunities for approval.

## Level 4 (Degree)

### EITHER (H411, H412, H413 Engineering (Aeronautical) Programmes)

11. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Non-Linear Solid Mechanics 4	<a href="#">ENGI4397</a>	10
Aircraft Structures 4	<a href="#">ENGI4407</a>	10
Aeromechanics 4	<a href="#">ENGI4417</a>	10
Fluid Mechanics 4	<a href="#">ENGI4427</a>	10
Turbomachinery and Propulsion 4	<a href="#">ENGI4437</a>	10

12. Candidates shall also study and be assessed in modules to the value of 10 credits from List A:

<b>List A:</b>		<b>Credit value</b>
Internet of Everything 4 (unavailable for 2023/24)	<a href="#">ENGI4567</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10
Artificial Intelligence and Deep Learning 4	<a href="#">ENGI4607</a>	10

13. Candidates shall also study and be assessed in modules to the value of 60 credits from List B:

<b>List B:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

### OR (H911, H912, H913 Engineering (Bioengineering) Programmes)

14. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Artificial Intelligence and Deep Learning 4	<a href="#">ENGI4607</a>	10
Artificial Organs 4	<a href="#">ENGI4617</a>	10
Biomechanics 4	<a href="#">ENGI4627</a>	10
Physiological Fluid Mechanics 4	<a href="#">ENGI4637</a>	10
Non-Linear Solid Mechanics 4	<a href="#">ENGI4397</a>	10

15. Candidates shall also study and be assessed in modules to the value of 10 credits from List C:

<b>List C:</b>		<b>Credit value</b>
Internet of Everything 4 (unavailable for 2023/24)	<a href="#">ENGI4567</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10

16. Candidates shall also study and be assessed in modules to the value of 60 credits from List D:

<b>List D:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

### OR (H211, H212, H213 Engineering (Civil) Programmes)

17. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Advanced Geotechnical Engineering 4	<a href="#">ENGI4337</a>	10
Planning and Contract Law 4	<a href="#">ENGI4347</a>	10
Structural Design 4	<a href="#">ENGI4357</a>	10
Structures 4	<a href="#">ENGI4377</a>	10
Hydrology and Water Resources 4	<a href="#">ENGI4387</a>	10

18. Candidates shall also study and be assessed in modules to the value of 10 credits from List F:

<b>List E:</b>		<b>Credit value</b>
Transportation Infrastructure Engineering 4	<a href="#">ENGI4367</a>	10
Non-Linear Solid Mechanics 4	<a href="#">ENGI4397</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10

19. Candidates shall also study and be assessed in modules to the value of 60 credits from List F:

<b>List F:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

**OR (H511, H512, H513 Engineering (Electrical) Programmes)**

20. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Renewable Energy Technologies 4	<a href="#">ENGI4447</a>	10
Future Vehicles 4	<a href="#">ENGI4457</a>	10
Electrical Energy Conversion 4	<a href="#">ENGI4467</a>	10
Power Electronics 4	<a href="#">ENGI4477</a>	10
Smart Energy Networks 4	<a href="#">ENGI4487</a>	10

21. Candidates shall also study and be assessed in modules to the value of 10 credits from List G:

<b>List G:</b>		<b>Credit value</b>
Internet of Everything 4 (unavailable for 2023/24)	<a href="#">ENGI4567</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10
Artificial Intelligence and Deep Learning 4	<a href="#">ENGI4607</a>	10

22. Candidates shall also study and be assessed in modules to the value of 60 credits from List H:

<b>List G:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

**OR (H711, H712, H713 Engineering (Electronic) Programmes)**

23. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Radio and Digital Communications 4	<a href="#">ENGI4507</a>	10
Communications Networks 4	<a href="#">ENGI4527</a>	10
Advanced Electronics Measurement 4	<a href="#">ENGI4537</a>	10
Advanced Electronics 4	<a href="#">ENGI4547</a>	10
Photonics 4	<a href="#">ENGI4557</a>	10

24. Candidates shall also study and be assessed in modules to the value of 10 credits from List I:

<b>List I:</b>		<b>Credit value</b>
Internet of Everything 4 (unavailable for 2023/24)	<a href="#">ENGI4567</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10
Artificial Intelligence and Deep Learning 4	<a href="#">ENGI4607</a>	10

25. Candidates shall also study and be assessed in modules to the value of 60 credits from List J:

<b>List J:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

**OR (H311, H312, H313 Engineering (Mechanical) Programmes)**

26. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Non-Linear Solid Mechanics 4	<a href="#">ENGI4397</a>	10
Fluid Mechanics 4	<a href="#">ENGI4427</a>	10
Turbomachinery and Propulsion 4	<a href="#">ENGI4437</a>	10
Renewable Energy Technologies 4	<a href="#">ENGI4447</a>	10
Future Vehicles 4	<a href="#">ENGI4457</a>	10

27. Candidates shall also study and be assessed in modules to the value of 10 credits from List K:

<b>List K:</b>		<b>Credit value</b>
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Internet of Everything 4 (unavailable for 2023/24)	<a href="#">ENGI4567</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10
Artificial Intelligence and Deep Learning 4	<a href="#">ENGI4607</a>	10

28. Candidates shall also study and be assessed in modules to the value of 60 credits from List L:

<b>List L:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

**OR (H811, H812, H813 Engineering (Renewable Energy) Programmes)**

29. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Renewable Energy Technologies 4	<a href="#">ENGI4447</a>	10
Future Vehicles 4	<a href="#">ENGI4457</a>	10
Electrical Energy Conversion 4	<a href="#">ENGI4467</a>	10
Smart Energy Networks 4	<a href="#">ENGI4487</a>	10
Decarbonisation of Heating and Cooling 4	<a href="#">ENGI4497</a>	10

30. Candidates shall also study and be assessed in modules to the value of 10 credits from List M:

<b>List K:</b>		<b>Credit value</b>
Internet of Everything 4 (unavailable for 2023/24)	<a href="#">ENGI4567</a>	10
Optimisation 4	<a href="#">ENGI4577</a>	10
Environmental Engineering 4	<a href="#">ENGI4597</a>	10
Artificial Intelligence and Deep Learning 4	<a href="#">ENGI4607</a>	10

31. Candidates shall also study and be assessed in modules to the value of 60 credits from List N:

<b>List L:</b>		<b>Credit value</b>
MEng Research and Development Project ~	<a href="#">ENGI4093</a>	60
MEng Technical Project ~	<a href="#">ENGI4112</a>	40
Engineering into Schools	<a href="#">ENGI4321</a>	20

**Assessment, progression and award**

32. The Professional Engineering Applications Course (PEAC) is compulsory for professional body accreditation of the degree. Therefore, students who wish to progress to Level 3 of a MEng or BEng degree in Engineering are required to complete this course to a satisfactory standard.
33. Major individual and group-based project modules cannot be compensated. These are defined as ENGI4093, ENGI4112, ENGI2201, ENGI3401 and ENGI3351.
34. All components of ENGI1171 must be passed at 40% for the award of an honours degree. Students are permitted to resit a failed component with the component mark capped at the module pass mark.
35. The following module components must be passed at 40% for the award of an honours degree. Students are permitted to resit a failed component with the component mark capped at the module pass mark:
  - a. The coursework component of ENGI2231, and;
  - b. The practical course component of either ENGI3301 or ENGI3371.
36. Modules marked with a ~ must be passed at 40% or above for the award of an honours degree. A mark of 30-39% cannot be compensated.
37. Modules marked with the # symbol must be passed at 40% or above to progress to the next level of study.
38. No more than 30 credits of core engineering (ENGI) or mathematics (MATH) modules may be compensated for the award of an honours degree.
39. Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of a MEng but who achieve the standard required for progression to Level 3 of a

Bachelor's programme may progress to Level 3 of a BEng in in the Honours or Ordinary stream in accordance with the Core Regulations.

40. A student who is qualified to progress from Level 2 to Level 3 of a MEng programme but wishes to transfer to Level 3 of a BEng programme shall be permitted to do so.
41. Students whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 may be awarded the degree of BSc Engineering at either Honours or Ordinary level in accordance with the Core Regulations for the award of a Bachelor's degree.
42. Students who successfully complete Level 3 of a Mechanical Engineering programme may register for the following programmes at Level 4: Mechanical Engineering OR Aeronautical Engineering OR Bioengineering OR Renewable Energy.
43. Students who successfully complete Level 3 of an Electronic Engineering programme may register for the following programme at Level 4: Electronic Engineering.
44. Students who successfully complete Level 3 of an Electrical Engineering programme may register for the following programmes at Level 4: Electrical Engineering OR Renewable Energy.
45. Students who successfully complete Level 3 of a Civil Engineering programme may register for the following programme at Level 4: Civil Engineering.
46. Students who successfully complete Level 3 of a Renewable Energy Programme (Route A) may register for the following programmes at Level 4: Electrical Engineering OR Renewable Energy
47. Students who successfully complete Level 3 of a Renewable Energy Programme (Route B) may register for the following programmes at Level 4: Aeronautical Engineering OR Mechanical Engineering OR Renewable Energy.
48. A student whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MEng may be awarded the degree of BSc Engineering at Honours level in accordance with the Core Regulations for the award of a Bachelor's degree.

#### **Year Abroad**

49. Students admitted to a MEng programme are able to apply to transfer to a MEng with Year Abroad programme. Students undertaking a MEng with Year Abroad programme will undertake an approved exchange in an overseas university taking a course of study chosen in consultation with the departmental exchange coordinator or their academic adviser and the host institution.
50. Candidates wishing to transfer to a MEng with Year Abroad must:
  - c. have successfully completed Level 1 of a MEng programme and progressed to Level 2 of the programme; and
  - d. during the first term of Level 2 study, apply via the departmental exchange coordinator to the Board of Studies in the Department of Engineering to be admitted to a MEng with Year Abroad and have their application approved by the Board of Studies; and
  - e. secure an exchange opportunity with an approved international partner institution of the University; and
  - f. successfully complete Level 2 of a MEng programme so as to be eligible to progress to Level 3 of a MEng Honours programme.
51. The marks achieved by the student during the period of study abroad will not contribute to the marks for degree classification. Students who the Board of Examiners for Engineering deem to have made satisfactory progress on the year abroad will continue to Level 3 of a MEng with Year Abroad programme. Students who have not made satisfactory progress on the year abroad will not be permitted to continue on a MEng with Year Abroad programme, but must instead proceed to Level 3 of a MEng programme without Year Abroad.
52. Students who undertake a Year Abroad are not eligible to apply for a Placement Year programme.

#### **Placement Year**

53. Students admitted to a MEng programme are able to apply to transfer to a MEng with Placement programme. Students undertaking a MEng with Placement programme will need to seek approval

of their proposed industrial placement year activities in consultation with the departmental placement coordinator.

54. Candidates wishing to transfer to a MEng with Placement must:
  - a. have successfully completed Level 2 of a MEng programme and progressed to Level 3 of the programme; and
  - b. during the first term of Level 3 study, apply via the departmental placement coordinator to the Board of Studies in the Department of Engineering; and
  - c. secure a placement with an industrial partner of their choice; and
  - d. to be admitted to a MEng with Placement, have their application and topic approved by the Board of Studies; and
  - e. successfully complete Level 3 of a MEng programme so as to be eligible to progress to Level 4 of a MEng Honours programme.
55. Candidates undertaking a Placement Year shall for the duration of the placement period be registered for the ENGI3976 Engineering Placement Year module.
56. Students who the Board of Examiners for Engineering deem to have made satisfactory progress during the placement year will continue to Level 4 of a MEng with Placement programme. Students who have not made satisfactory progress during the placement year will not be permitted to continue on a MEng with Placement programme, but must instead proceed to Level 4 of a MEng programme without Placement.
57. Students who undertake a Placement Year are not eligible to apply for a Year Abroad programme.

#### **Professional accreditation**

58. Programmes are accredited on behalf of the Engineering Council for the purposes of fully meeting the academic requirement for registration as a Chartered Engineer, depending on the specialism chosen in Level 4 as follows:
  - a. by the IET for students entering Level 1 up to and including October 2023 (Aeronautical (H411, H412, H413), Electrical (H511, H512, H513), Electronic (H711, H712, H713), Mechanical (H311, H312, H313) and Renewable Energy (H811, H812, H813) programmes);
  - b. by the IMechE for students entering Level 1 up to and including October 2023 (Mechanical (H311, H312, H313), Aeronautical (H411, H412, H413), Electrical (H511, H512, H513), Electronic (H711, H712, H713) and Renewable Energy (H811, H812, H813) programmes);
  - c. by the JBM (ICE, IStructE, IHE, CIHT) for students entering Level 1 up to and including October 2023 (Civil (H211, H212, H213) programmes);
  - d. by the RAeS for students entering Level 1 up to and including October 2023 (Aeronautical (H411, H412, H413) programmes).
59. Accreditation for Bioengineering (H911, H912, H913) programmes is pending and will be confirmed as soon as possible.
60. The accrediting bodies may require students to pass individual assessment components within modules to evidence that they meet the learning outcomes associated with the academic requirements for registration.