

The Degree of Master of Engineering (ME – 120 points)

These regulations must be read in conjunction with the General Regulations for the University.

1. Version

These Regulations came into force on 1 January 2018.

2. Variations

In exceptional circumstances the Amo Pūkaha | College of Engineering Dean (Academic) may approve a personal programme of study which does not conform to these Regulations.

3. The structure of the qualification

To qualify for the Master of Engineering degree a student must complete a programme of study that consists of courses totalling not less than 120 points including:

- (a) a thesis of 120 points as listed in Schedule C; and
- (b) up to 45 points of coursework, consisting of:
 - i. any courses listed in Schedule C; and
 - ii. any courses from Schedule E: Groups 1 and 2 that will best support their research. A student may select courses not on Schedule E: Group 1 if they are deemed necessary to support their research plan and approved by the Amo Pūkaha | College of Engineering Dean (Academic).

4. Admission to the qualification

A student for the Master of Engineering must have:

- (a) either
 - i. qualified for the award of the Degree of Bachelor of Engineering with First or Second Class Honours; or
 - ii. qualified for the award of the Master of Engineering Studies or Postgraduate Certificate in Engineering with a GPA of 5.0 or more; or
 - iii. qualified for the award of the Degree of Bachelor of Science with First or Second Class Honours in appropriate subjects; or
 - iv. in exceptional circumstances, qualified for the award of another appropriate degree in Aotearoa New Zealand; or
 - v. been admitted with Academic Equivalent Standing; and
- (b) been approved as a student for the degree by the Amo Pūkaha | College of Engineering Dean (Academic) based on relevance and standard of previous study.

5. Subjects

The degree may be awarded with an endorsement in the following subjects:

- (a) Bioengineering
- (b) Chemical and Process Engineering
- (c) Civil Engineering
- (d) Construction Management
- (e) Earthquake Engineering
- (f) Electrical and Electronic Engineering
- (g) Mechanical Engineering
- (h) Software Engineering.

6. Time limits

- (a) A student must study full-time unless approval for part-time study is granted by the Amo Pūkaha | College of Engineering Dean (Academic).
- (b) The time limit for this qualification is 36 months.

7. Transfers of credit, substitutions and cross-credits

This qualification adheres to the Credit Recognition and Transfer Regulations, with no additional stipulations.

8. Progression

This qualification adheres to the General Regulations for the University, which permits 30 points of course failures to qualify for the degree, with no additional stipulations.

9. Honours, Distinction and Merit

This qualification adheres to the General Regulations for the University and may be awarded with Distinction and Merit.

- (a) A student is eligible for the award of Master of Engineering with Distinction if:
- i. a GPA of 7.0 or more is attained in their programme of study; and
 - ii. the degree is completed within:
 - a. 24 months for full-time study; or
 - b. 36 months for part-time study.

10. Exit and Upgrade Pathways to other Qualifications

- (a) A Master of Engineering student demonstrating high research potential may, with the support of the relevant Tumuaki Tari | Head of Department, apply to transfer to a PhD degree, with thesis enrolment backdating as approved by the Amo Rangahau | Dean of Postgraduate Research. If approved, the Master of Engineering degree must be abandoned.
- (b) A student for the Master of Engineering who has not met the requirements for the Master of Engineering or who wishes to transfer to the Master of Engineering Studies or the Postgraduate Certificate in Engineering may apply to the Amo Pūkaha | College of Engineering Dean (Academic) for transfer.

Schedule C: Compulsory Courses for the Degree of Master of Engineering (Endorsed)

For full course information, go to www.canterbury.ac.nz/courses

Bioengineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENBI 601	Medical Bioengineering	15	NO		
ENBI 690	Bioengineering ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department

Construction Management

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENCM 690	Construction Management Thesis	120	A	Campus	P: Subject to approval of Programme Director.

And at least 30 points from the Construction Management course list listed in Schedule E: Group 1 of the ME Regulations.

Chemical and Process Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENCH 690	Chemical and Process Engineering M.E. Thesis	120	A	Campus	P: Subject to approval of the Head of Department.

Civil Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENCI 690	Civil ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department.

And at least 30 points from the Civil Engineering (ENCI), Construction Management (ENCM), Earthquake Engineering (ENEQ) and Transportation Engineering (ENTR) course lists listed in Schedule E: Group 1 of the ME Regulations.

Earthquake Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENEQ 690	Earthquake Engineering ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department or Programme Director

And at least 45 points from the Earthquake Engineering course list listed in Schedule E: Group 1 of the ME Regulations.

Note: A student with an insufficient academic background in Earthquake Engineering may be required to take a bridging course or courses prior to being approved into the programme.

Electrical and Electronic Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENEL 690	Electrical ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department.

Mechanical Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENME 690	ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department.

Software Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
SENG 690	Software ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department

Schedule E: Elective Courses for the Degree of Master of Engineering (Endorsed)

Group 1

Bioengineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENBI 601	Medical Bioengineering	15	NO		
ENBI 605	Biomedical Engineering Simulations	15	NO		P: Subject to approval of the Head of Department. R: ENCH 409, ENME 609

Chemical and Process Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENCH 602	Computational Fluid Dynamics	15	NO		P: Subject to approval of the Head of Department R: ENCH 401, ENGR 401
ENCH 603	Physical, Chemical and Analytical Techniques	15	NO		P: Subject to approval of the Head of Department.
ENCH 606	Advanced Process Simulation	15	NO		P: Subject to approval of the Head of Department.
ENCH 607	Modelling and Numerical Methods	15	NO		P: Subject to approval of the Head of Department.

Civil Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENCI 601	Risk Management	15	S1	Campus	P: Subject to approval of the Director of Studies
ENCI 609	Special Topic	15	NO		P: Subject to approval of the Director of Studies

ENCI 610	Special Topic: Infrastructure Systems - Criticality and Lifelines	15	NO		P: Subject to approval of the Director of Studies
ENCI 621	Concrete Materials and Practice	15	NO		P: Subject to approval of Programme Director.
ENCI 634	Engineering Chemistry for Water Systems	15	S1	Campus	P: Subject to approval of the Programme Director
ENCI 637	Marine Pollution Modelling	15	NO		P: Subject to approval of the Head of Department.
ENCI 638	Environmental Fluid Dynamics	15	NO		P: Subject to approval of the Head of Department.
ENCI 639	Advanced Water Hammer Analysis and Design	15	NO		P: ENNR 404. RP: Students should have a good understanding of how unsteady flow can be modelled using method of characteristics prior to taking this course. Strong coding skills in Matlab (or another language) is required
ENCM 620	Construction Procurement and Contract Administration	15	S1	Campus	P: Subject to approval of Programme Director
ENEQ 610	Seismic Hazard and Risk Analysis	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director. R: ENCI 617
ENFE 601	Structural Fire Engineering	15	S1	Campus	P: ENGR 403 or subject to approval of the Head of Department R: ENCI 661
ENFE 602	Fire Dynamics	15	S1	Campus	P: ENGR 403 EQ: ENCI 663
ENGR 403	Fire Engineering	15	SU1	Campus	P: Subject to approval of the Director of Studies
			S1	Campus	
ENGR 621	Energy, Technology and Society	15	S1	Campus	P: Subject to the approval of the Head of Department.
ENGR 683	Special Topic in Engineering - Project	30	A	Campus	P: Subject to the approval of the Dean of Engineering
			S1	Campus	
			W	Campus	
			S2	Campus	
ENNR 423	Sustainable Energy Systems	15	S1	Campus	P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 375
ENTR 603	Advanced Pavement Design	15	NO		P: Subject to approval of the Programme Director.
ENTR 604	Road Asset Management	15	NO		P: Subject to approval of the Programme Director.
ENTR 617	Traffic Network Modelling and Optimization	15	NO		P: ENCN 412: traffic engineering or equivalent
ENTR 619	Special Topic: Quantitative Techniques for Transport Engineering and Planning	15	NO		P: Subject to approval of the Programme Director

Construction Management

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENCI 601	Risk Management	15	S1	Campus	P: Subject to approval of the Director of Studies
ENCM 610	Construction Management	15	NO		P: Subject to approval of Programme Director
ENCM 620	Construction Procurement and Contract Administration	15	S1	Campus	P: Subject to approval of Programme Director
ENCM 630	Project Management, Planning and Control Techniques	15	S1	Campus	P: Subject to approval of Programme Director

ENCM 650	Cost Engineering	15	S2	Campus	RP: BE (Hons) or equivalent
ENCM 676	Construction Equipment and Heavy Construction Methods	15	S2	Campus	
ENCM 678	Special Topic	15	NO		P: Subject to approval of the Director of Studies
ENCM 682	Research Project	30	A	Campus	P: Subject to approval of Programme Director
ENTR 604	Road Asset Management	15	NO		P: Subject to approval of the Programme Director.

Earthquake Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/PP/EQ
ENCI 601	Risk Management	15	S1	Campus	P: Subject to approval of the Director of Studies
ENCI 621	Concrete Materials and Practice	15	NO		P: Subject to approval of Programme Director.
ENEQ 610	Seismic Hazard and Risk Analysis	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director. R: ENCI 617
ENEQ 620	Advanced Geotechnical Earthquake Engineering	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director. R: ENCI 620
ENEQ 621	Special topic	15	NO		P: Subject to approval of the Head of Department.
ENEQ 623	Finite Element Analysis of Structures	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director
ENEQ 624	Nonlinear Structural Analysis and Dynamics	15	X	Campus	P: Subject to approval of the Head of Department or Programme Co-ordinator.
ENEQ 629	Special Topic: Seismic Soil Structure Interaction	15	X	Campus	P: Subject to approval of the Head of Department or Programme Co-ordinator
ENEQ 633	Special Topic: Advanced Timber Structures	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director.
ENEQ 634	Special topic	15	NO		P: Subject to approval of the Head of Department or the Programme Director.
ENEQ 640	Displacement-based Design of Low Damage Structures	15	X	Campus	P: Subject to approval of the Head of Department or Programme Director R: ENCI 615
ENEQ 641	Nonlinear Concrete Mechanics and Modelling Techniques	15	NO		P: Subject to approval of the Head of Department or Programme Director
ENEQ 642	Seismic Assessment and Retrofit Strategies for Existing Reinforced Concrete Buildings	15	NO		P: Subject to approval of Head of Department. R: ENEQ 692 RP: Post-graduate admission and approval of the departmental Director of Post-graduate Studies. Undergraduate background in earthquake engineering is expected.
ENEQ 650	Advanced Steel and Composite Structures	15	X	Campus	P: ENCI 423 and ENCI 429 or approval of Head of Department or Programme Director. R: ENCI 611
ENEQ 670	Seismic Bridge Engineering	15	NO		P: Subject to approval of the Head of Department or Programme Director
ENEQ 680	Seismic Performance and Loss Estimation	15	NO		P: Subject to approval of the Head of Department or Programme Director
ENEQ 681	Special Topic	15	NO		P: Subject to approval of the Head of Department or Programme Director.
ENEQ 682	Special topic: Ground improvement techniques	15	X	Campus	P: Subject to approval of the Head of Department or the Programme Director.
ENEQ 690	Earthquake Engineering ME Thesis	120	A	Campus	P: Subject to approval of the Head of Department or Programme Director

Electrical and Electronic Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENEL 614	Signals in Biomedicine	15	NO		P: Subject to approval of the Head of Department. R: ENEL 514
ENEL 619	Computational Image Recovery	15	NO		P: Subject to approval of the Head of Department.
ENEL 657	Applied Digital Signal Processing	15	NO		P: Subject to approval of the Head of Department.
ENEL 664	Special Topic	15	NO		P: Subject to approval of the Head of Department. R: ENEL 564, ENEL 667
ENEL 685	Electrical Postgraduate Project	30	A	Campus	P: Subject to approval of the Head of Department.
			W	Campus	
			CY	Campus	

Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENGR 601	Advanced Computational Fluid Dynamics	15	S1	Campus	P: Subject to approval of the Head of Department R: ENGR 401 RP: Bachelors degree in Engineering or equivalent

Fire Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENCI 601	Risk Management	15	S1	Campus	P: Subject to approval of the Director of Studies
ENFE 601	Structural Fire Engineering	15	S1	Campus	P: ENGR 403 or subject to approval of the Head of Department R: ENCI 661
ENFE 604	Fire Design Case Study	15	NO		P: ENGR 403 or approval of the Head of Department C: ENFE 610
ENFE 615	Human Behaviour in Fire	15	S1	Campus	P: ENGR 403 or approval of Head of Department
ENFE 681	Fire Project	15	SU2	Campus	P: Subject to approval of the Director of Studies.
			A	Campus	
ENFE 682	Fire Project	30	SU2	Campus	P: ENGR 403
			A	Campus	
ENFE 683	Fire Project	45	SU2	Campus	P: Subject to approval of the Director of Studies.
			A	Campus	

Mechanical Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENME 602	Advanced Vibrations and Acoustics	15	NO		P: Subject to approval of the Head of Department. R: ENME 402 RP: Bachelors degree in Engineering or equivalent
ENME 603	Advanced Linear Systems Control and System Identification	15	S1	Campus	P: Subject to approval of the Head of Department. R: ENME 403 RP: Bachelors degree in Engineering or equivalent
ENME 604	Advanced Aerodynamics and Ground Vehicle Dynamics	15	S2	Campus	P: Subject to approval of the Head of Department. R: ENME 404 RP: Bachelors degree in Engineering or equivalent

ENME 605	Advanced Energy Systems Engineering	15	NO		P: Subject to approval of the Head of Department. R: ENME 405, ENGR 404 RP: Bachelors degree in Engineering or equivalent
ENME 606	Advanced Engineering Product Design and Analysis	15	S2	Campus	P: Subject to approval of the Head of Department. R: ENME 406 RP: Bachelors degree in Engineering or equivalent
ENME 607	Advanced Materials Science and Engineering	15	S1	Campus	P: Subject to approval of the Head of Department. R: ENME 407 RP: Bachelors degree in Engineering or equivalent
ENME 609	Advanced Physiological Modelling	15	NO		P: Subject to approval of the Head of Department. R: ENME 409 RP: Bachelors degree in Engineering or equivalent
ENME 611	Advanced Mechanical System Design	15	NO		P: Subject to approval of the Head of Department. R: ENME 411 RP: Bachelors degree in Engineering or equivalent
ENME 617	Advanced Composite, Polymeric and Ceramic Materials	15	NO		P: Subject to approval of the Head of Department. R: ENME 417 RP: Bachelors degree in Engineering or equivalent
ENME 618	Advanced Engineering Management and Professional Practice for Mechanical Engineers	15	S2	Campus	P: Subject to approval of the Head of Department. R: ENME 418 RP: Bachelors degree in Engineering or equivalent
ENME 623	Advanced Instrumentation and Sensors	15	NO		P: Subject to approval of the Head of Department. R: ENME 423 RP: Bachelors degree in Engineering or equivalent
ENME 625	Special Topic	15	NO		P: Subject to approval of the Head of Department.

Renewable Energy

Required Courses

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENCN 623	Energy Systems Modelling and Analysis	15	S2	Campus	P: ENNR 423 or subject to approval of the Head of Department
ENCN 625	Wind Resource Modelling	15	S2	Campus	
ENEL 667	Renewable Electricity System Design	15	S2	Campus	R: ENEL 663, ENEL 664
ENGR 621	Energy, Technology and Society	15	S1	Campus	P: Subject to the approval of the Head of Department.

Elective Courses

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENCH 483	Advanced Energy Processing Technologies and Systems	15	S1	Campus	P: ENGR 404
ENCI 601	Risk Management	15	S1	Campus	P: Subject to approval of the Director of Studies
ENCM 620	Construction Procurement and Contract Administration	15	S1	Campus	P: Subject to approval of Programme Director
ENCN 401	Engineering in Developing Communities	15	S1	Campus	P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281 R: ENNR 451
ENGR 404	Emerging Energy Technologies and Management	15	S2	Campus	P: ENCH 291 or subject to approval of the Director of Studies. R: ENME 405, ENME 605

ENGR 682	Special Topic in Engineering - Project	15	S1	Campus	P: Subject to the approval of the Head of Department.
			W	Campus	
			S2	Campus	
ENGR 683	Special Topic in Engineering - Project	30	A	Campus	P: Subject to the approval of the Dean of Engineering
			S1	Campus	
			W	Campus	
			S2	Campus	
ENNR 423	Sustainable Energy Systems	15	S1	Campus	P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 375

Transport Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENR 602	Accident Reduction and Prevention	15	S1	Campus	P: Subject to approval of the Programme Director
ENR 603	Advanced Pavement Design	15	NO		P: Subject to approval of the Programme Director.
ENR 604	Road Asset Management	15	NO		P: Subject to approval of the Programme Director.
ENR 611	Planning and Managing for Transport	15	NO		P: Subject to approval of the Programme Director.
ENR 612	Transport Policy and System Management	15	NO		P: Subject to approval of the Programme Director R: ENR 601
ENR 613	Highway Geometric Design	15	NO		P: Subject to approval of the Programme Director
ENR 614	Planning and Design of Sustainable Transport	15	S2	Campus	P: Subject to approval of the Programme Director
ENR 615	Advanced traffic flow theory and simulation	15	S2	Campus	P: ENCN 412: traffic engineering or equivalent
ENR 616	Transport Planning and Modelling	15	S1	Campus	P: Subject to approval of the Programme Director R: ENR 605
ENR 617	Traffic Network Modelling and Optimization	15	NO		P: ENCN 412: traffic engineering or equivalent
ENR 618	Transport and Freight Logistics	15	NO		P: Subject to approval of the Programme Director.
ENR 619	Special Topic: Quantitative Techniques for Transport Engineering and Planning	15	NO		P: Subject to approval of the Programme Director

Notes:

- Not all courses will be offered in any one year. Students are advised to contact Te Rāngai Pūkaha | College of Engineering for an up to date list of courses offered.
- Special topics are available in Chemical and Process Engineering, Civil Engineering, Earthquake Engineering, Electrical and Electronic Engineering, Engineering, Mechanical Engineering, Software Engineering, Engineering Mathematics and Transport Engineering. Students are advised to contact the departments for more information on special topics.
- With the approval of the Director of the Construction Management Programme, a student may credit up to two courses offered in the Construction Management Programme at Te Whare Wānanga o Tāmaki Makaurau | University of Auckland.

Group 2

Any approved 400-level or higher courses offered within the University.

Computer Science

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
COSC 401	Machine Learning	15	S2	Campus	P: (i) COSC 367; (ii) At least 45 points of 100-, 200- or 300-level MATH/EMTH/STAT (but not including MATH 101, MATH 110, STAT 101); (iii) Subject to approval by the Head of Department
COSC 411	Advanced Topics in HCI	15	S1	Campus	P: 1) COSC 368, 2) Subject to approval of the Head of Department. BE(Hons) students must have completed COSC 363.
COSC 420	Intelligent Tutoring Systems	15	NO		P: Subject to approval of the Head of Department.
COSC 421	Advanced Topics in Security	15	S1	Campus	P: (1) COSC 362 and (2) subject to approval by the Head of Department
COSC 422	Advanced Computer Graphics	15	S2	Campus	P: 1) COSC 363 2) Subject to Approval of the Head of Department
COSC 424	Secure Software	15	S2	Campus	P: Subject to approval of the Head of Department.
COSC 428	Computer Vision	15	S1	Campus	P: Subject to approval of the Head of Department.
COSC 432	Relational Methods	15	S2	Campus	P: COSC 261 or COSC 262; and MATH 120
COSC 440	Deep Learning	15	S2	Campus	P: (1) COSC 262; (2) 30 points of 300-level COSC/SENG/DATA; (3) Approval by the Head of the Department of Computer Science and Software Engineering.
COSC 441	Wireless Networking Systems and Performance	15	S1	Campus	P: ENCE 260, SENEG 201 and COSC 364. R: COSC 418
COSC 469	Research Methods in Computer Science and Software Engineering	15	S1	Campus	P: Subject to approval by Head of Department. R: COSC 460

Fire Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
ENFE 602	Fire Dynamics	15	S1	Campus	P: ENGR 403 EQ: ENCI 663
ENFE 603	Fire Safety Systems	15	X	Campus	P: ENGR 403 or subject to approval of the Head of Department
ENFE 610	Advanced Fire Dynamics	15	X	Campus	P: ENGR 403
ENGR 403	Fire Engineering	15	SU1	Campus	P: Subject to approval of the Director of Studies
			S1	Campus	

Forestry Science

Course Code	Course Title	Pts	2021	Location	P/C/R/RP/EQ
FORE 616	Restoration Ecology	30	S2	Campus	P: Subject to approval of the Head of Department.
FORE 641	Plantation Forest Management	30	S2	Campus	P: Subject to approval by the Head of School. R: FORE 632, FORE 633
FORE 642	Advanced IT Applications in Forestry and Natural Resource Management	15	S1	Campus	P: Subject to approval of Head of School R: FORE 342

Human Interface Technology

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
HITD 602	Human Interface Technology - Design and Evaluation	15	S1	Campus	P: Subject to Approval of the College of Engineering Dean (Academic) R: HITD 601
HITD 603	Human Interface Technology - Prototyping and Projects	15	S1	Campus	P: Subject to Approval of the College of Engineering Dean (Academic) R: HITD 601

Mechanical Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENME 401	Mechanical Systems Design	15	S1	Campus	P: ENME 311 or ENMT 301
ENMT 482	Robotics	15	S2	Campus	P: ENME 403
MDPH 401	Anatomy and Physiology	15	S1	Campus	P: ENME 311 or ENME 351, or subject to approval of the Head of Department.

Renewable Energy

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENCH 486	Special Topic in Chemical and Process Engineering	15	NO		P: Subject to the approval of the Director of Studies.
ENGR 404	Emerging Energy Technologies and Management	15	S2	Campus	P: ENCH 291 or subject to approval of the Director of Studies. R: ENME 405, ENME 605
ENME 405	Energy Systems Engineering	15	NO		P: ENME 305 or ENME 315 R: ENGR 404
ENNR 423	Sustainable Energy Systems	15	S1	Campus	P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 375

Software Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
SENG 401	Software Engineering III	15	S1	Campus	P: SENG 301 and SENG 302 R: COSC 427
SENG 403	Software Process and Product Quality	15	S2	Campus	P: SENG 301
SENG 404	Software Requirements and Architecture	15	S1	Campus	P: (1) SENG 301, or (2) Subject to approval by Head of Department
SENG 405	Model-Driven Software Engineering	15	S1	Campus	P: COSC 261 and SENG 301
SENG 440	Special Topic: Topics in Mobile Computing	15	S1	Campus	P: SENG 301
SENG 442	Special Topic	15	S2	Campus	P: Subject to the approval of the Director of Studies

Transport Engineering

Course Code	Course Title	Pts	2021	Location	P/C/R/RR/EQ
ENTR 401	Fundamentals of Transport Engineering	15	NO		P: Subject to approval of the Programme Director R: ENCI 412

Notes:

1. *Not all courses will be offered in any one year. Students are advised to contact the College of Engineering for an up to date list of courses offered.*
2. *Special topics are available in Chemical and Process Engineering, Civil Engineering, Earthquake Engineering, Electrical and Electronic Engineering, Mechanical Engineering, Computer Science and Software Engineering, Engineering Mathematics and Transport Engineering. Students are advised to contact the departments for more information on special topics.*