

2018 Semester Terms and Dates Summary

Term Code	Term Description	Semester Start Date	Census Date	End of Semester	Assessments Due	Results Published
1805	Semester 1, 2018	26-02-18	31-03-18	25-06-18	As per course description	06-07-18
1815	Winter 2018	23-04-18	15-07-18	27-07-18	As per course description	10-08-18
1820	Semester 2, 2018	30-07-18	31-08-18	23-11-18	As per course description	07-12-18
1825	Spring 2018	01-09-18	15-10-18	31-12-18	As per course description	11-01-19
1827	Summer 2018	12-11-18	08-12-18	23-02-19	As per course description	08-03-19

Formal Semester Start Date:	This is when the semester officially commences on the University calendar.
Census Date:	This is the last date you can 'drop' a subject from your enrolment for that semester and not be charged for the subject. 'Dropping' a subject will remove it entirely from your transcript of results and fee invoice for the semester. Please note that you can no longer personally remove the final subject from a semester. If you are enrolled in one subject only in a given semester, this will need to be 'dropped on your behalf'.
End of Semester:	This is when the semester officially concludes on the University calendar.
Assessments Due:	This is the final date to submit your assessments for the semester, and is available on your course description. Late assessments will only be accepted if you have applied for Special Consideration and received an extension to the due date. Students who have not submitted by this date automatically receive a fail grade for the subject. If you anticipate not being able to complete by the date specified on your course description, it is advisable to 'drop' the subject from your enrolment, but be mindful of when it will next be offered.
Results Published:	This is the date that your results will officially be released via your MySC account. Results go through a formal approvals process at the Faculty level once they have been marked by coordinator, and cannot be released prior to this date.

If you do not have access to enrolment in each of these terms, please email info@federation.edu.au with your student ID number and advise that you do not have access.

2018 Block mode timetable (on campus at Mt Helen)

Course Code	Course Name	Start Date	End Date	Room	Enrol in Session Code
ENMIN 5160	Rock Mechanics Applications	07 – 05 – 2018	10 – 05 - 2018	Y243	1805
ENMIN 7030	Advanced Rock Mechanics	05 – 03 - 2018	08 – 03 - 2018	Y243	1805
ENMIN 7050	Mine Development Engineering	21 – 05 - 2018	25 – 05 - 2018	Y243	1805
ENMIN 5021	Mine Surveying	09 – 04 - 2018	12 – 04 - 2018	H125	1805
ENMIN 7010	Mine Planning and Scheduling	30 – 04 - 2018	05 – 05 - 2018	Y243	1815
ENMIN 5017	Ore Reserve Estimation	06 – 08 - 2018	09 – 08 - 2018	Y243	1820
ENMIN 7020	Advanced Mine Ventilation	20 – 08 - 2018	23 – 08 - 2018	Y243	1820
ENMIN 5023	Mine Ventilation	10 – 09 - 2018	13 – 09 - 2018	Y243	1825
ENMIN 5100	Mine Power Supply & Drainage	24 – 09 – 2018	27 – 09 - 2018	Y243	1825

Please note: Campus accommodation is not available for all sessions, for bookings please contact the accommodation office directly via email feduniliving@federation.edu.au.

2018 Remote Delivery timetable (off campus study)

	Semester 1	Winter semester	Semester 2	Spring semester	Summer semester
ENMIN 5017 Ore Reserve Estimation			✓		
ENMIN 5018 Surface Mining Operations & Equipment			✓		
ENMIN 5020 Mine Safety & Environmental Engineering			✓		
ENMIN 5021 Mine Surveying	✓				
ENMIN 5023 Mine Ventilation				✓	
ENMIN 5100 Mine Power Supply & Drainage				✓	
ENMIN 5110 Production Drilling & Blasting					✓
ENMIN 5120 Tunnelling & Mine Development					✓
ENMIN 5130 Underground Production Systems		✓			
ENMIN 5140 Materials Handling & Hoisting		✓			
ENMIN 5150 Company Economics & Finance	✓				
ENMIN 5160 Rock Mechanics Applications	✓				
ENMIN 7010 Mine Planning & Scheduling		✓			
ENMIN 7020 Advanced Mine Ventilation			✓		
ENMIN 7030 Advanced Rock Mechanics	✓				
ENMIN 7040 Advanced Rock Breakage			✓		
ENMIN 7050 Mine Environment Engineering	✓				
ENMIN 7091 Research Project 1	✓		✓		
ENMIN 7092 Research Project 2	✓		✓		
ENMIN 7093 Research Project 3	✓		✓		

Course Code	Course Name	Description
ENMIN5017	Ore Reserve Estimation	This course develops an understanding of current theory and practice in the sampling and evaluation of mineral deposits and grade control. Collection, preparation and analysis of mineral samples, problems of error and bias and their control, reporting and classification of resources and reserves, compositing and the extension function, classical estimation techniques, statistical approach, the geological database, orebody modelling, inverse distance weighting, the variogram, kriging, comparative review of estimation methods, grade control, case studies.
ENMIN5018	Surface Mining Operations & Equipment	This course gives an overview of surface mining methods and equipment. Bench mining, strip mining, alluvial mining, bucket wheel excavators, draglines face shovels, hydraulic excavators, wheeled loaders, scrapers, continuous miners, in pit crushers, estimating and equipment selection.
ENMIN5020	Mine Safety & Environmental Engineering	This course enables students to understand factors affecting the mine environment, and how to control them to achieve a safe, healthy and comfortable workplace. Legislative framework and requirements, historical development of health and safety philosophies, types of accidents and injuries, hazard management, human factors, manual handling, entry into confined spaces, control strategies, atmospheric contaminants and their control, noise, radiation heat and humidity, illumination, properties of mine air, measurement and control of airflow, mine fans, network theory and analysis, outbursts and explosions, fires, mine rescue.
ENMIN5021	Mine Surveying	This course introduces the theory and practice of mine surveying to students without a surveying background. Introduction to surveying and use of survey instruments, location of drill holes, bench surveys, layout of blasting patterns, haul road set out, transfer of control from surface to underground, alignment of underground development, pickup surveys, recording of survey information, control systems, location and selection of stations, bore hole surveys, subsidence surveys, slope monitoring.
ENMIN5023	Mine Ventilation	Managers' responsibility, environmental effects statements; legislation; noise; vibration; dust and visual impact; disposal of solid and liquid wastes; hazardous substances; effect of surface and ground water; risk management; environmental audits; assessment; monitoring soil management; rehabilitation; revegetation; community relations.
ENMIN5100	Mine Power Supply & Drainage	This course acquaints the student with the provision and reticulation of mine services and power supply, and the effect of mine and surface water. Ground water, pumps and pipelines, mine dewatering, preventing inflow, mining under water, flooding, disposal. Capacity and power factor, distribution systems, cables transformers, protection, signals and automation, lighting, thyristor control, flame and explosion proofing, tariffs, compressed air, electro- hydraulic systems.
ENMIN5110	Production Drilling & Blasting	This course reinforces present knowledge in production drilling and blasting, and examines up-to-date production drilling and blasting methods. Content includes production drilling methods and equipment, bits and drilling accessories, explosive types, explosive properties and characteristics, principles of blasting, initiation systems, small- scale methods of drilling and blasting, large-scale methods and mass blasting, crater blasting systems, controlled blasting techniques, vibrations and air blast, secondary breaking, case studies and costs.
ENMIN5120	Tunneling & Mine Development	This course develops an understanding of conventional and mechanised tunnelling methods and their application to mine development. Mine planning, shafts versus declines, conventional tunnelling, jumbo methods, road headers, full face tunnel boring, raising methods, sinking and winding, ground support, underground layouts, case studies and costs are the main topics covered.
ENMIN5130	Underground Production Systems	This course develops an understanding of Australian and overseas underground production systems and their application to ore bodies of various shapes and other characteristics. The need for efficiency, the shift away from labour intensive systems, selecting a production system, stopping methods, coal mining methods, fill materials and transport, case studies and costs are the main topics covered.

ENMIN5140	Materials Handling & Hoisting	An introduction to the handling of broken rock and mineral products in underground mines. Hoisting, wire ropes, underground rail, trackless mining, pipeline systems, loaders, scrapers, conveyors, continuous mining.
ENMIN5150	Company Economics & Finance	This course provides an understanding of the corporate economic environment at a mine. Marketing mineral products, abundance, price, credit assessment and financing of mines, feasibility studies, economic optimisation, financial analysis; pit optimisation; cut-off grades; production scheduling; maintenance replacement decisions, taxation, freight, balance sheets and Semesters 1&2 reports, equity and debt financing, true cost of capital, leverage, ratio analysis, project analysis, production economies, cost control systems and reporting.
ENMIN5160	Rock Mechanics Applications	This course gives an appreciation of rock mechanics theory and its practical application to the design of safe and efficient mining excavations. Mechanical properties of rock and their measurement, role of discontinuities, structural mapping and data presentation, hemispherical analysis, mechanisms of slope failure, effects of water, deterministic and probabilistic analysis, elastic theory, non-elastic behaviour, strength criteria, stress measurement, numerical modelling, support and reinforcement, backfill, monitoring rock mass performance.
ENMIN7010	Mine Planning & Scheduling	This course undertakes to extend existing knowledge of underground and surface mine planning and production scheduling. Fundamental concepts of planning will be developed by the use of modern simulation techniques employed within the mining industry.
ENMIN7020	Advanced Mine Ventilation	This course undertakes to extend existing knowledge of Mine Ventilation, especially in regard to ventilation planning, system optimisation and the design and planning of auxiliary systems of ventilation contaminant control.
ENMIN7030	Advanced Rock Mechanics	This course undertakes to extend existing knowledge of rock mechanics particularly in relation to the design of support systems for surface and underground mines. Particular emphasis will be placed on the utilisation of modern computational techniques for the design and monitoring of rock support systems in mines.
ENMIN7040	Advanced Rock Breakage	This course undertakes to extend existing knowledge of the methods available to undertake the basic need in mining to break rock into appropriately sized fragments for subsequent mining and milling operations. Traditional methods will be reviewed and novel techniques will be described. The course also develops and understanding of the design and planning of rock breakage methods and the application of modern tools to analyse and design appropriate systems.
ENMIN7050	Mine Environment Engineering	Mining has long been regarded as an environmentally unfriendly industry. The aim if this course is to introduce mining engineers to the concepts of environmentally friendly mining and ecologically sustainable development from a mining engineering perspective. Legal responsibilities of the industry with respect to the environment act as a starting point for the development of ideas and attitudes of environmentally friendly mining, tailings disposal, effluent disposal, contaminated land management and mine closure and rehabilitation.
ENMIN7091	Research Project 1	This course equips participants with advanced knowledge and deep understanding of the methodology and procedure followed to design and conduct research projects. The course has been designed to deliver graduates with highly developed analytical, critical and communication skills who can perform autonomously, and who are fully qualified to readily engage in further learning and research endeavours.
ENMIN7092	Research Project 2	This course is intended to monitor and assist students' progress in the second semester of their major research project. Students will have to produce update submissions to highlight their progress and demonstrate their advanced understanding of the topic being researched and their ability to synthesis solutions and apply deep comprehension of theory to practice.
ENMIN7093	Research Project 3	In this course, students utilise the experience and knowledge acquired from their study program to complete their projects and write theses on their findings. In the process, students will employ hands-on, analytical and computing skills relevant to their fields of studies