

Chapter 5: Appendix 1. Mathematics requirements for Engineering degree programs

Degree program	Mathematics units of study required	
	First year	Second year
Aeronautical Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2005 Fourier Series & Differential Equations
Chemical Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations MATH2051 Linear Programming MATH2052 Numerical Methods
Civil Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations MATH2051 Linear Programming MATH2052 Numerical Methods
Computer Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations
Electrical Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations
Mechanical Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations MATH2052 Numerical Methods
Mechatronic Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations MATH2052 Numerical Methods
Project Engineering & Management (Civil)	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations MATH2051 Linear Programming MATH2052 Numerical Methods
Telecommunications Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations
Software Engineering	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations

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Mechanical Engineering (Biomedical)	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1005 Statistics	MATH2001 Vector Calculus & Complex Variables MATH2002 Matrix Applications MATH2005 Fourier Series & Differential Equations MATH2052 Numerical Methods
Aeronautical Engineering (Space Engineering)	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1004 Discrete Mathematics	MATH2001 Vector Calculus & Complex Variables MATH2005 Fourier Series & Differential Equations
Mechanical Engineering (Space Engineering)	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1004 Discrete Mathematics	MATH2001 Vector Calculus & Complex Variables MATH2005 Fourier Series & Differential Equations MATH2052 Numerical Methods
Mechatronic Engineering (Space Engineering)	MATH1001 Differential Calculus MATH1002 Linear Algebra MATH1003 Integral Calculus & Modelling MATH1004 Discrete Mathematics	MATH2001 Vector Calculus & Complex Variables MATH2005 Fourier Series & Differential Equations