

University of Cambridge International Examinations  
 GCE Advanced Subsidiary Level and GCE Advanced Level  
 For Students Entering Summer 2022 or Subsequent

Virginia Tech Course Equivalent  
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Cambridge GCE Exam	CIE Grade Scale	VT Grade Scale	VT Course Equivalent	VT Course Name	Credits	Pathways Concept(s)
Accounting A	A – E	A-C	ACIS 2115	Principles of Accounting	3	
Accounting AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Afrikaans AS	A – E	A-C	FL 1XXX	Foreign Language Elective	3	
Arabic A	A – E	A-C	ARBC 2XXX ARBC 2XXX	Arabic Elective Arabic Elective	3 3	
Arabic AS	A – E	A-C	ARBC 2XXX	Arabic Elective	3	
Art & Design A	A – E	A-C	ART 2XXX ART 2XXX	Art Elective Art Elective	3 3	
Art & Design AS	A – E	A-C	ART 2XXX	Art Elective	3	
Biblical Studies A	A – E	A-C	RLCL 1XXX	Religion and Culture Elective	3	
Biblical Studies AS	A – E	A-C	RLCL 1XXX	Religion and Culture Elective	3	
Biology A	A – E	A-C	BIOL 1105, 1115 BIOL 1106, 1116	Principles of Biology + lab Principles of Biology + lab	4 4	4 (6 credits, no labs)
Biology AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Business A	A – E	A-C	VT 2XXX VT 2XXX	Virginia Tech Elective Virginia Tech Elective	3 3	
Business AS	A – E	A-C	VT 2XXX	Virginia Tech Elective	3	
Chemistry A	A – E	A-C	CHEM 1035, 1045 CHEM 1036, 1046	General Chemistry + lab General Chemistry + lab	4 4	4
Chemistry AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Chinese A	A – E	A-C	CHN 1XXX	Chinese Elective	3	

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Classical Studies A	A – E	A-C	RLCL 1134	Ancient Mediterranean World	3	2 (3 credits)
			RLCL 1XXX	Religion and Culture Elective	3	
Classical Studies AS	A – E	A-C	RLCL 1XXX	Religion and Culture Elective	3	
Computer Science A	A – E	A-C	CS 1XXX	Computer Science Elective	3	
Computer Science AS	A – E	A-C	CS 1XXX	Computer Science Elective	3	
Design & Technology A	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Design & Technology AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Design & Textiles A	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Design & Textiles AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Digital Media and Design A	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Digital Media and Design AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Drama A	A – E	A-C	TA 1XXX	Theatre Arts Elective	3	
Drama AS	A – E	A-C	TA 1XXX	Theatre Arts Elective	3	
Economics A	A – E	A-C	ECON 2005	Principles of Economics (micro)	3	3
			ECON 2006	Principles of Economics (macro)	3	
Economics AS	A – E	A-C	ECON 1XXX	Economics Elective	3	
English Language A	A – E	A-C	ENGL 1105	First Year Writing	3	1f
English Language AS	A – E	A-C	ENGL 1105	First Year Writing	3	1f
English Literature A	A – E	A-C	ENGL 2XXX	English Elective	3	
			ENGL 2XXX	English Elective	3	
English Literature AS	A – E	A-C	ENGL 2XXX	English Elective	3	
English Language and Lit AS	A – E	A-C	ENGL 2XXX	English Elective	3	
English General Paper AS	A – E	A-C	ENGL 1105	First Year Writing	3	1f

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Environmental Management AS	A – E	A-C	ENSC 1015	Foundation Environmental Science	3	4
Food Studies A	A – E	A-C	FST 2014 FST 1XXX	Intro to Food Science Food Science Technology Elective	3 3	
Food Studies AS	A – E	A-C	FST 2014	Intro to Food Science	3	
French A	A – E	A-C	FR 2XXX FR 2XXX	French Elective French Elective	3 3	
French AS	A – E	A-C	FR 2XXX	French Elective	3	
Further Mathematics A	A - C	A-B	MATH 1225 MATH 1226 MATH 2114	Calculus Single Variable Calculus Single Variable Introduction to Linear Algebra	4 4 3	5f (8 credits)
Further Mathematics A	D-E	C	MATH 1225 MATH 1026	Calculus Single Variable Elementary Calculus	4 3	5f
Further Mathematics AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
English General Paper AS	A – E	A-C	ENGL 1105	First Year Writing	3	1f
Geography A	A – E	A-C	GEOG 1004 GEOG 1104	Introduction to Human Geography Introduction to Physical Geography	3 3	3 (3 credits)
Geography AS	A – E	A-C	GEOG 1XXX	Geography Elective	3	
German A	A – E	A-C	GER 2XXX GER 2XXX	German Elective German Elective	3 3	
German AS	A – E	A-C	GER 2XXX	German Elective	3	
Global Perspectives and Research A	A – E	A-C	IS 1XXX IS 1XXX	International Studies Elective International Studies Elective	3 3	
Global Perspectives and Research AS	A – E	A-C	IS 1XXX	International Studies Elective	3	

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Hinduism A	A – E	A-C	RLCL 1XXX	Religion and Culture Elective	3	
Hinduism AS	A – E	A-C	RLCL 1XXX	Religion and Culture Elective	3	
History A	A – E	A-C	HIST 1XXX HIST 1XXX	History Elective History Elective	3 3	
History AS	A – E	A-C	HIST 1XXX	History Elective	3	
Information Technology A	A – E	A-C	VT 1XXX VT 1XXX	Virginia Tech Elective Virginia Tech Elective	3 3	
Information Technology AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Islamic Studies A	A – E	A-C	RLCL 1XXX RLCL 1XXX	Religion and Culture Elective Religion and Culture Elective	3 3	
Islamic Studies AS	A – E	A-C	RLCL 1XXX	Religion and Culture Elective	3	
Law A	A – E	A-C	VT 1XXX VT 1XXX	Virginia Tech Elective Virginia Tech Elective	3 3	
Law AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Marine Science A	A – E	A-C	VT 1XXX VT 1XXX	Virginia Tech Elective Virginia Tech Elective	3 3	
Marine Science AS						
Mathematics A	A - C	A-B	MATH 1225 MATH 1226	Calculus of a Single Variable Calculus of a Single Variable	4 4	5f
Mathematics A	D - E	C	MATH 1225 MATH 1026 <sup>1</sup> (Non STEM majors only)	Calculus of a Single Variable Elementary Calculus	4 3	5f

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Mathematics AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Media Studies A	A – E	A-C	VT 1XXX VT 1XXX	Virginia Tech Elective Virginia Tech Elective	3 3	
Media Studies AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Music A	A – E	A-C	MUS 1XXX	Music Elective	3	
Music AS	A – E	A-C	MUS 1XXX	Music Elective	3	
Physics A	A - C	A-B	PHYS 2205, 2215 PHYS 2206, 2216	General Physics + Lab General Physics + Lab	4 4	4
Physics A	D - E	C	PHYS 2XXX	Physics Elective	3	
Physics AS	A – E	A-C	VT 1XXX	Virginia Tech Elective	3	
Psychology A	A – E	A-C	PSYC 1004 PSYC 2XXX	Introductory Psychology Psychology Elective	3 3	3 (3 credits)
Psychology AS	A – E	A-C	PSYC 2XXX	PSYC Elective	3	
Sociology A	A – E	A-C	SOC 1004	Introductory Sociology	3	3 AND 7
Sociology AS	A – E	A-C	SOC 1004	Introductory sociology	3	3 AND 7
Spanish A	A – E	A-C	SPAN 2XXX SPAN 2XXX	Spanish Elective Spanish Elective	3 3	
Spanish AS	A – E	A-C	SPAN 2XXX	Spanish Elective	3	
Sport & Physical Education AS (new exam; launches in 2024)	A – E	A-C	HNFE 1XPE	Physical Education Elective	2	
Thinking Skills A	A – E	A-C	PHIL 1XXX PHIL 1XXX	Philosophy Elective Philosophy Elective	3 3	
Thinking Skills AS	A – E	A-C	PHIL 1XXX	Philosophy Elective	3	
Travel and Tourism A	A – E	A-C	HTM 1XXX	Hospitality/Tourism Management Elective	3	

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<sup>1</sup>Business students will not receive MATH 1026 credit.

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