

List of Reviewed Courses for the Upper-Level STEM Course Requirement - B.S. International Affairs

Please take note of the following before reviewing the list:

- This list of reviewed courses is not exhaustive - these are only the courses that have been reviewed thus far for the upper-level STEM requirement.
- If you are interested in taking a different course for the STEM requirement that is not on this list, please submit a <u>Course Substitution Request</u> to have the course reviewed.
- All courses for the upper-level STEM requirement must be 2000 or higher, with the exception of MATH 1232: Calculus II.

Approved Courses:

Course Subject	Course Number	Newly Added	Course Title
ACCY	2001		Intro to Financial Accounting
ACCY	2002		Intro to Managerial Accounting
ACCY	3106		Financial Statement Analysis
ANAT	2130		Human Embroyology
ANAT	2160		Neuroimaging of the Disordered Brain (DIS Copenhagen Version)
APSC	2057		Analytical Mechanics I
APSC	2058		Analytical Mechanics II
BADM	3501		Financial Management
BADM	3601		Operations Management
BIO	2213		Biology of Cancer
BIOC	3261		Introductory Medical Biochemistry (Same as BISC 3261)
BIOC	3262		Biochemistry Laboratory (Same as BISC 3262 and CHEM 3262)
BISC	2099		Animal Diversity (Victoria University of Wellington)
BISC	2207		Genetics
BISC	2214		Developmental Biology
BISC	2220		Developmental Neurobiology

BISC	2320	Neuroplasticity: The Brain and Behavior (DIS Copenhagen Version)
BISC	2339	Parasitology
BISC	2450	Organic Evolution
BISC	2452	Animal Behavior (and lab BISC 2453)
BISC	2454	General Ecology (and lab BISC 2456)
BISC	3209	Molecular Biology
BISC	3261	Introductory Medical Biochemistry (Same as BIOC 3261)
BISC	3262	Biochemistry Laboratory (Same as BIOC 3262 and CHEM 3262)
BISC	3458	Plant Comparative Structure and Function (and lab BISC 3453)
CE	2220	Introduction to the Mechanics of Solids
СНЕМ	2085	Environmental Chemistry
СНЕМ	2122	Introductory Quantitative Analysis
СНЕМ	2123	Introductory Quantitative Analysis Laboratory
СНЕМ	2123W	Introductory Quantitative Analysis Laboratory
СНЕМ	2151	Organic Chemistry I
СНЕМ	2153	Organic Chemistry Lab I
СНЕМ	2152	Organic Chemistry II
СНЕМ	2154	Organic Chemistry Laboratory II
СНЕМ	3140	Geochemistry
СНЕМ	3165	Biochemistry I
СНЕМ	3166	Biochemistry II
СНЕМ	3166W	Biochemistry II
СНЕМ	3170	Introduction to Physical Chemistry
СНЕМ	3171	Physical Chemistry I
СНЕМ	3172	Physical Chemistry II
СНЕМ	3173	Physical Chemistry Laboratory
СНЕМ	3262	Biochemistry Laboratory (Same as BIOC 3262 AND BISC 3262)
СНЕМ	3564	Lipid Biotechnology
СНЕМ	4113	Chemical Instrumentation
CHEM	4122	Instrumental Analytical Chemistry

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CHEM	4123	Instrumental Analytical Chemistry Laboratory
CHEM	4134	Inorganic Chemistry
NOTE:		The following CSCI courses are restricted to either Computer Science majors or Computer Science majors and minors only.
CSCI	1112	Algorithms and Data Structures
CSCI	1311	Discrete Structures I
CSCI	2113	Software Engineering
CSCI	2312	Discrete Structures II
CSCI	2441	Database Systems and Team Projects
CSCI	2461	Computer Architecture I
CSCI	3212	Algorithms
CSCI	3221	Programming Languages
CSCI	3313	Foundations of Computing
CSCI	3362	Probability for Computer Science
CSCI	3410	Systems Programming
CSCI	3411	Operating Systems
CSCI	3462	Computer Architecture II
CSCI	3571	Introduction to Bioinformatics
CSCI	4222	Theory of Computer Translators
CSCI	4223	Principles of Programming Languages
CSCI	4235	Development of Open-Source Software
CSCI	4237	Software Design for Handheld Devices
CSCI	4243	Capstone Design Project I
CSCI	4244	Capstone Design Project II
CSCI	4314	Discrete Analysis-Computer Science
CSCI	4331	Cryptography
CSCI	4341	Continuous Algorithms
CSCI	4342	Computational Linear Algebra and Applications
CSCI	4361	Simulation Methods
CSCI	4364	Machine Learning

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CSCI	4415		Real-Time and Embedded Systems
CSCI	4417		UNIX System Programming
CSCI	4418		UNIX System Administration
CSCI	4431		Computer Networks I
CSCI	4432		Computer Networks II
CSCI	4455		Computer Game Design and Programming
CSCI	4511		Artificial Intelligence Algorithms
CSCI	4521		Introduction to Mobile Robotics
CSCI	4525		Autonomous Robotics: Manipulation
CSCI	4527		Introduction to Computer Vision
CSCI	4531		Computer Security
CSCI	4541		Network Security
CSCI	4551		Concepts and Applications of Computer Graphics
CSCI	4552		Design of Computer Animation I
CSCI	4553		Design of Computer Animation II
CSCI	4554		Computer Graphics I
CSCI	4561		Design of User–Interface Programs
CSCI	4572		Computational Biology
CSCI	4576		Introduction to Biomedical Computing
CSCI	4577		Biomedical Computing
DNSC	2001		Business Analytics II: Predictive & Prescriptive Analytics
DNSC	4211	NEW	Programming for Analytics
DNSC	4219	NEW	Forecasting Analytics
ECON	2101		Intermediate Microeconomic Theory
ECON	2102		Intermediate Macroeconomic Theory
ECON	2103		Intermediate Microeconomic Theory: A Mathematical Approach
ECON	2104		Intermediate Macroeconomic Theory: A Mathematical Approach
ECON	2121		Financial Economics
ECON	2123		Introduction to Econometrics (Same as STAT 2123)

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ECON	2151	Economic Development
ECON	2167	Economics of Crime
ECON	3142	Labor Economics
ECON	3162	Public Finance: Taxation
ECON	3191	Game Theory
ECON	3099	Game Theory (AUCKLAND TRANSFER VERSION)
ECON	3199	Economics Network of Industries
EHS	2107	Theory & Practice of Research in a Clinical Setting
EMSE	3701	Operations Research Methods
EMSE	4571	Introduction to Programming for Analytics (previously EMSE 4574)
EMSE	4572	Exploratory Data Analysis (previously EMSE 4575)
FINA	3001	Intermediate Finance
FINA	3101	Investment and Portfolio Management
FINA	3201	Exploring Finance with Simulation
FINA	3301	Money and Capital Markets
FINA	4001	Advanced Financial Management
FINA	4101	Applied Financial Securities Analysis
FINA	4201	Real Estate Investment
FINA	4301	Financial Derivatives
FINA	4900	Applied Financial Security Analysis: Fixed Income
FINA	4900	Financial Models with Python
GEOG	2104	Introduction to Cartography and GIS
GEOG	2105	Techniques of Spatial Analysis
GEOG	2128	Geomorphology
GEOG	2129	Biogeography
GEOG	3105	Techniques of Spatial Analysis
GEOG	3106	Intermediate Geographic Information Systems
GEOG	3107	Remote Sensing
GEOG	3128	Geomorphology
GEOG	3195	GIS: Applied Climate Change (DIS COPENHAGEN VERSION)

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GEOG	3196		Geographic Information Systems III
GEOG	4307		Digital Image Processing and Analysis
GEOG	4308		Programming for Geospatial Applications
GEOG	4309		GIS for Emergency Management
GEOG	4311		Open Source Solutions for Geospatial Project Management
GEOG	6293		Open Source Geospatial Programming
GEOG	6305		Geospatial Statistics
GEOL	3128		Sedimentology & Stratigraphy
ISTM	4212	*NEW*	Data Management for Analytics
MAE	2131		Thermodynamics
MATH	1232		Single-Variable Calculus II
MATH	2184		Linear Algebra I
MATH	2185		Linear Algebra I for Math Majors
MATH	2233		Multivariable Calculus
MATH	2971		Introduction to Mathematical Reasoning
MATH	3120		Elementary Number Theory
MATH	3125		Linear Algebra II
MATH	3257		Introduction to Complex Variables
MATH	3342		Ordinary Differential Equations
MATH	3343		Partial Differential Equations
MATH	3359		Introduction to Mathematical Modeling
MATH	3410		Mathematics of Finance
MATH	3411		Stochastic Calculus Methods in Finance
MATH	3553		Introduction to Numerical Analysis
MATH	3613		Introduction to Combinatorics
MATH	3632		Introduction to Graph Theory
MATH	3710		Introduction to Mathematical Logic
MATH	3720		Axiomatic Set Theory
MATH	3730		Computability Theory
MATH	3740		Computational Complexity

MATH	3806	Introduction to Topology
MATH	3848	Differential Geometry
MATH	4121	Introduction to Abstract Algebra I
MATH	4122	Introduction to Abstract Algebra II
MATH	4239	Real Analysis I
MATH	4240	Real Analysis II
MATH	2971W	Introduction to Mathematical Reasoning
PHYS	2023	Modern Physics
PHYS	2151	Intermediate Laboratory I: Techniques and Methods
PHYS	2152	Intermediate Laboratory II: Instrumentation
PHYS	2163	Physical and Quantum Optics
PHYS	2183	Computational Modern Physics
PHYS	3127	Biophysics: Macroscopic Physics in the Life Sciences
PHYS	3128	Biophysics: Microscopic Physics in the Life Sciences
PHYS	3161	Mechanics
PHYS	3163	Physical and Quantum Optics
PHYS	3164	Thermal and Statistical Physics
PHYS	3165	Electromagnetic Theory I
PHYS	3166	Electromagnetic Theory II
PHYS	3167	Principles of Quantum Physics
PHYS	3181	Computational Physics
PHYS	4170	Solid-State Physics
PHYS	4175	Nuclear Physics
PSC	2101	Scopes and Methods
PSYC	2101	Research Methods in Psychology
PSYC	4106 (4106W)	Research Lab in Sensation and Perception
PSYC	4107 (4107W)	Research Lab in Cognitive Neuroscience
PSYC	4201 (4201W)	Research Lab in Clinical/Community Psychology
PSYC	4203 (4203W)	Research Lab in Developmental Psychology
PUBH	2110	Public Health Biology

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PUBH	3131	Epidemiology: Measuring Health and Disease
PUBH	3152	Qualitative Research Methods in Public Health
PUBH	3201	Introduction to Bioinformatics
PUBH	3202	Introduction to Genomics
STAT	2112	Business and Economic Statistics II
STAT	2118	Regression Analysis
STAT	2123	Introduction to Econometrics (Same as ECON 2123)
STAT	2183	Intermediate Statistics Lab/Packages
STAT	2183W	Intermediate Stat Lab/Packages
STAT	3119	Analysis of Variance
STAT	3187	Introduction to Sampling
STAT	3187W	Introduction to Sampling
STAT	4157	Introduction to Mathematical Statistics I
STAT	4158	Introduction to Mathematical Statistics II
STAT	4181	Applied Time Series Analysis
STAT	4188	Nonparametric Statistics Inference
STAT	4189	Mathematical Probability and Applications I
STAT	4190	Mathematical Probability and Applications II
STAT	4197	Fundamentals of SAS Programming for Data Management
STAT	4198	Actuarial Investigations (London School of Economics)

(SEE DENIED BELOW ON NEXT PAGE.)

DENIED:

ANAT	2150	Human Microscopic Anatomy
BADM	2301	Management Information Systems Technology
BISC	2331	Insect Biology (& Lab BISC 2335)
BISC	2401	Biodiversity in a Changing World
BISC	2454	General Ecology
BISC	3464	Ecology and Evolution of Societies
BISC	2202	Cell Biology
BISC	2333	Evolution and Extinction
CE	2510	Environmental Sustainability
CSCI	1012	Introduction to Programming with Python
CSCI	1111	Introduction to Software Development
ECON	2136	Environmental and Natural Resource Economics
ECON	2158	Industrial Organization
ECON	2159	Government Regulation of the Economy
ECON	2169	Introduction to the Economy of China
ECON	2181	International Trade Theory and Policy
ECON	2182	International Macroeconomic Theory and Policy
ECON	2199	Econ of the European Union
ECON	2199	Human Capital Theory and Application
ECON	3099	Economic Growth (London School of Economics)
ECON	3161	Public Finance: Expenditure Programs
ECON	3190	Law and Economics
ECON	4198W	Proseminar in Economics
EHS	1040	Emergency Medical Technician- Basic Lecture
EMSE	6200	Policy Factors in Environmental and Energy Management
ENVR	3099	Technology of Renewable Energies (Freiburg Environmental Studies & Sustainability IES)
ENVR	3099	Climate & Vegetation in the Black Forest & the Swiss Alps (Freiburg Environmental Studies & Sustainability IES)
GEOG	2136	Water Resources

GEOG	2137	Environmental Hazards
GEOG	2148	Economic Geography
GEOG	3108	Weather and Climate
GEOG	3218	Arctic Systems
GEOG	4310	Geovisualization and Cartography
GEOG	2134W	Energy Resources
IAFF	3190	Theories of Int'l Negotiation (London School of Economics)
IBUS	4302	International Banking
IBUS	4402	Managing - Developing Countries
IBUS	4404	Global Energy
MUS	2662	Introduction to Digital Musicianship
NSC	2150	Navigation
PSYC	2011	Abnormal Psychology
PSYC	2012	Social Psychology
PSYC	2014	Cognitive Psychology
PSYC	3099	Developmental Disorders
PSYC	3099	Psychology of Time (DIS Copenhagen)
PSYC	3099	European Clinical Psychology
PSYC	3118	Neuropsychology
PUBH	3130	Health Services Management and Economics
PUBH	3151W	Current Issues in Bioethics