



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 [Course Substitution Request](#) 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 Embryology
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
BADM	4801	*NEW*	Strategy Formulation and Implementation
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

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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
CHEM	2085		Environmental Chemistry
CHEM	2122		Introductory Quantitative Analysis
CHEM	2123		Introductory Quantitative Analysis Laboratory
CHEM	2123W		Introductory Quantitative Analysis Laboratory
CHEM	2151		Organic Chemistry I
CHEM	2153		Organic Chemistry Lab I
CHEM	2152		Organic Chemistry II
CHEM	2154		Organic Chemistry Laboratory II
CHEM	3140		Geochemistry
CHEM	3165		Biochemistry I
CHEM	3166		Biochemistry II
CHEM	3166W		Biochemistry II
CHEM	3170		Introduction to Physical Chemistry
CHEM	3171		Physical Chemistry I
CHEM	3172		Physical Chemistry II
CHEM	3173		Physical Chemistry Laboratory
CHEM	3262		Biochemistry Laboratory (Same as BIOC 3262 AND BISC 3262)
CHEM	3564		Lipid Biotechnology
CHEM	4113		Chemical Instrumentation

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CHEM	4122		Instrumental Analytical Chemistry
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	4331		Cryptography
CSCI	4341		Continuous Algorithms
CSCI	4342		Computational Linear Algebra and Applications
CSCI	4364		Machine Learning
CSCI	4415		Real-Time and Embedded Systems

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CSCI	4417		UNIX System Programming
CSCI	4418		UNIX System Administration
CSCI	4431		Computer Networks I
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

Note:

The following DATS courses are restricted to students double majoring or minoring in DATS. Students must check the Schedule of Classes for specific restrictions.

DATS	2102		Data Visualization for Data Science
DATS	2103		Data Mining for Data Science
DATS	2104		Data Warehousing for Data Science

DNSC	2001		Business Analytics II: Predictive & Prescriptive Analytics
DNSC	4211		Programming for Analytics
DNSC	4219		Forecasting Analytics
ECON	2101		Intermediate Microeconomic Theory
ECON	2102		Intermediate Macroeconomic Theory

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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)
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

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GEOG	3106		Intermediate Geographic Information Systems
GEOG	3107		Remote Sensing
GEOG	3128		Geomorphology
GEOG	3195		GIS: Applied Climate Change (DIS COPENHAGEN VERSION)
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		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

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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

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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
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.)

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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

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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