Mathematics Courses: Summer 2024

MATH100403
Finite Probability and Applications
Geist, Nathan T
Summer 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100404
Finite Probability and Applications
Lema Perez, Joaquin Ignacio
Summer 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: Mathematics

Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100601
Thinking Like a Mathematician
Belding, Juliana V;Ward, Erika;Zhang, Liyang
Summer 2024
This course is designed for students with a desire to expand their problem-solving skills and strategies. Students will develop a flexible and transferable collection of skills and strategies for tackling unfamiliar problems in Mathematics and beyond, which will be helpful for quantitative aspects of STEM majors. In addition, students will work with select mathematics topics commonly used in General Chemistry, including rational expressions, exponential and logarithmic functions, dimensional analysis, and working with parameters.

Credits: 1
Room and Schedule: Maloney Hall 560 MTuWThF 10:00AM-11:45AM
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

MATH103301
Introduction to Finite Math for OTE
Haddad, Juliette M
Summer 2024

Introduction to Finite Math for OTE

Credits: 3
Room and Schedule: Stokes Hall 205S MTuThF 11:40AM-12:25PM;Stokes Hall 205S MTuWThF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

MATH103501
Intro to Probability and Statistics for OTE
Doherty, Amy L
Summer 2024
TBD

Credits: 3
Room and Schedule: Stokes Hall 203S MTuThF 11:40AM-12:25PM;Stokes Hall 203S MTuWThF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

MATH103601
Intro to Calculus for OTE
Lambert, Gerard S
Summer 2024

TBD

Credits: 3
Room and Schedule: Stokes Hall 217N MTuThF 11:40AM-12:25PM;Stokes Hall 217N MTuWThF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Summer
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110001
Calculus I
Gerraughty, Lorin E
Summer 2024
MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH110002
Calculus I
Gerraughty, Lorin E
Summer 2024
MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110003
Calculus I
Gerraughty, Lorin E
Summer 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110301
Calculus II (Mathematics/Science Majors)
Goldstein, Ellen J
Summer 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 3
Room and Schedule: On-line Asynchronous
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH490101
Readings and Research
Cheung, Chi-Keung
Summer 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490102
Readings and Research
Cheung, Chi-Keung
Summer 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

Mathematics Courses: Fall 2024

MATH100201
Functions and Differential Calculus
Goldstein, Ellen J
Fall 2024
This course is intended for students who are required to take Calculus I (either MATH1100 or MATH1102) but whose backgrounds necessitate additional preparation. Topics include the real line and coordinate plane; linear and quadratic functions; higher degree polynomials and rational functions; trigonometry, emphasizing the trigonometric functions; and exponential and logarithmic functions. Note: This course does not satisfy the University Core Requirement in Mathematics. Department permission is required: see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: O'Neill Library 246 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100202
Functions and Differential Calculus
Goldstein, Ellen J
Fall 2024

This course is intended for students who are required to take Calculus I (either MATH1100 or MATH1102) but whose backgrounds necessitate additional preparation. Topics include the real line and coordinate plane; linear and quadratic functions; higher degree polynomials and rational functions; trigonometry, emphasizing the trigonometric functions; and exponential and logarithmic functions. Note: This course does not satisfy the University Core Requirement in Mathematics. Department permission is required: see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: O'Neill Library 246 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100401
Finite Probability and Applications
Doherty, Amy L
Fall 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Gasson Hall 205 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH100402
Finite Probability and Applications
Doherty, Amy L
Fall 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Gasson Hall 205 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100403
Finite Probability and Applications
Fu, Yaoying
Fall 2024

Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Gasson Hall 205 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100404
Finite Probability and Applications
Lema Perez, Joaquin Ignacio
Fall 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Higgins Hall 225 MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH100406
Finite Probability and Applications
Geist, Nathan T
Fall 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: O'Neill Library 246 MWF 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100701
Ideas in Mathematics
Ward, Erika
Fall 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson. This course is designed to introduce the student to the spirit, beauty, and vitality of mathematics. The emphasis is on development of ideas rather than problem solving skills. Topics vary, but are typically chosen from diverse areas such as geometry, number theory, computation, and graph theory.

Credits: 3
Room and Schedule: Gasson Hall 309 MWF 11:00AM-11:50AM

Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100702
Ideas in Mathematics
Ward, Erika
Fall 2024
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson. This course is designed to introduce the student to the spirit, beauty, and vitality of mathematics. The emphasis is on development of ideas rather than problem solving skills. Topics vary, but are typically chosen from diverse areas such as geometry, number theory, computation, and graph theory.

Credits: 3
Room and Schedule: Gasson Hall 309 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110001
Calculus I
Belding, Juliana V
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 10:00AM-10:50AM;Monday 7:15-8:45 pm
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110002
Calculus I
Belding, Juliana V
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 11:00AM-11:50AM;Monday 7:15-8:45 pm
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110004
Calculus I
Fanelle, Sophia M
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110005
Calculus I
Assigned, Dept;Teplitskiy, Mayah
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Mcguinn Hall 30 Tu 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110007
Calculus I
Assigned, Dept;Fanelle, Sophia M
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110008
Calculus I
Assigned, Dept;Fanelle, Sophia M
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 08:00AM-08:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110009
Calculus I
Moss, Eric
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 12:00 Noon-12:50PM;Monday 7:15-8:45 pm
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110010
Calculus I
Yavuz, Cemre
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 01:00PM-01:50PM;Monday 7:15-8:45 pm
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110012
Calculus I
Dept;Feng, Enhao
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Mcguinn Hall 30 Tu 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110013
Calculus I
Dept;Feng, Enhao
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110014
Calculus I
Dept;Lyu, Qingfeng
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110015
Calculus I
Dept;Feng, Enhao
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110016
Calculus I
Dept;Lyu, Qingfeng
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110017
Calculus I
Ganapathy, Gomathy
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Monday 7:15-8:45 pm;Stokes Hall 115S MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110018
Calculus I
Dept;Teplitskiy, Mayah
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110019
Calculus I
Han, Zijian
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Monday 7:15-8:45 pm;Stokes Hall 203S MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110020
Calculus I
Assigned, Dept;Khanna, Harshul
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110021
Calculus I
Assigned, Dept;Wang, Mujie
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 207 MWF 01:00PM-01:50PM;Monday 7:15-8:45 pm
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110022
Calculus I
Assigned, Dept;Isayev, Edward
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Mcguinn Hall 30 Tu 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110023
Calculus I
Ward, Erika
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 02:00PM-02:50PM;Monday 7:15-8:45 pm
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110024
Calculus I
Assigned, Dept;Isayev, Edward
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110025
Calculus I
Assigned, Dept;Teplitskiy, Mayah
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110026
Calculus I
Assigned, Dept;Isayev, Edward
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110028
Calculus I
Assigned, Dept;Lyu, Qingfeng
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Mcguinn Hall 30 Tu 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110029
Calculus I
Fang, Tingting
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Monday 7:15-8:45 pm;Stokes Hall 133S MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110030
Calculus I
Assigned, Dept;Liu, Tianxiang
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Monday 7:15-8:45 pm;Stokes Hall 286S MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110031
Calculus I
Assigned, Dept;Khanna, Harshul
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110032
Calculus I
Yan, Yuzheng
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Monday 7:15-8:45 pm;O'Neill Library 248 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110034
Calculus I
Assigned, Dept;Tee, Ming Hong
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Monday 7:15-8:45 pm;Stokes Hall 203S MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110035
Calculus I
Assigned, Dept;Khanna, Harshul
Fall 2024

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110101
Calculus II
Yavuz, Cemre
Fall 2024

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 4
Room and Schedule: Gasson Hall 306 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110102
Calculus II
Yavuz, Cemre
Fall 2024

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 4
Room and Schedule: Gasson Hall 306 MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110103
Calculus II
Assigned, Dept;Winters, Ethan
Fall 2024

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 0
Room and Schedule: Gasson Hall 301 Th 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110104
Calculus II
Assigned, Dept;Winters, Ethan
Fall 2024

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 0
Room and Schedule: Gasson Hall 301 Th 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110105
Calculus II
Assigned, Dept;Winters, Ethan
Fall 2024

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 0
Room and Schedule: Gasson Hall 301 Th 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110201
Calculus I (Mathematics/Science Majors)
Slyman, Katherine
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 310 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics

Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110202
Calculus I (Mathematics/Science Majors)
Slyman, Katherine
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 310 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110203
Calculus I (Mathematics/Science Majors)
Assigned, Dept;Ramakrishnan, Pranavkrishnan
Fall 2024

Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Th 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110204
Calculus I (Mathematics/Science Majors)
Assigned, Dept;Ramakrishnan, Pranavkrishnan
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 301 Th 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

MATH110205
Calculus I (Mathematics/Science Majors)
Assigned, Dept;Ramakrishnan, Pranavkrishnan
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Th 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110206
Calculus I (Mathematics/Science Majors)
Moss, Eric
Fall 2024

Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 204 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110207
Calculus I (Mathematics/Science Majors)
Moss, Eric
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 202 MWF 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

MATH110208
Calculus I (Mathematics/Science Majors)
Assigned, Dept;Brown, Sarah V
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Th 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110209
Calculus I (Mathematics/Science Majors)
Assigned, Dept;Brown, Sarah V
Fall 2024

Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Th 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110210
Calculus I (Mathematics/Science Majors)
Assigned, Dept;Brown, Sarah V
Fall 2024
Not open to students who have completed a calculus course at the college level.. MATH1102 is a first course in the calculus of one variable intended for Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics, and Physics majors. It is open to others who are qualified and desire a more rigorous calculus course than MATH1100. Topics covered include the algebraic and analytic properties of the real number system, functions, limits, derivatives, and an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Th 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

MATH110301
Calculus II (Mathematics/Science Majors)
Zhang, Liyang
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Campion Hall 204 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110302
Calculus II (Mathematics/Science Majors)
Zhang, Liyang
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Campion Hall 231 MWF 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH110303
Calculus II (Mathematics/Science Majors)
Assigned, Dept;Zimmerman, Arieh
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 306 Th 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110304
Calculus II (Mathematics/Science Majors)
Assigned, Dept;Zimmerman, Arieh
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 306 Th 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None

Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110305
Calculus II (Mathematics/Science Majors)
Assigned, Dept;Zimmerman, Arieh
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 306 Th 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110306
Calculus II (Mathematics/Science Majors)
Roy, Agniva
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 210 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110307
Calculus II (Mathematics/Science Majors)
Roy, Agniva
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 210 MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110308
Calculus II (Mathematics/Science Majors)
Martinez Alvarez, Jordi Andres
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 306 Th 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102

Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110309
Calculus II (Mathematics/Science Majors)
Assigned, Dept;Martinez Alvarez, Jordi Andres
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 306 Th 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110310
Calculus II (Mathematics/Science Majors)
Assigned, Dept;Martinez Alvarez, Jordi Andres
Fall 2024
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 306 Th 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics

Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH119001
Fundamentals of Mathematics I
Goldstein, Ellen J
Fall 2024
Restricted to Lynch School of Education students.. MATH1190-1191 is a course sequence designed for those who plan to teach mathematics in grades K-8. The emphasis is on building conceptual understanding of the mathematics present in the emerging K-8 curriculum and on deepening content knowledge. Number and number systems through the real number system will be studied; functions and the structure of algebra will be developed. Problem solving and reasoning, applications and making connections will be featured.

Credits: 3
Room and Schedule: Stokes Hall 295S MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220201
Multivariable Calculus
Gross, Robert
Fall 2024

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 202 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220202
Multivariable Calculus
Gross, Robert
Fall 2024
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 204 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH220203
Multivariable Calculus
Dept;Schmidt, August
Fall 2024
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 301 Th 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220204
Multivariable Calculus
Dept;Schmidt, August
Fall 2024

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 301 Th 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220205
Multivariable Calculus
Dept;Schmidt, August
Fall 2024
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 302 Th 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH220206
Multivariable Calculus
Assigned, Dept;Hameister, Thomas
Fall 2024
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 202 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220207
Multivariable Calculus
Assigned, Dept;Hameister, Thomas
Fall 2024

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Stokes Hall 201S MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220208
Multivariable Calculus
Dept;Naseri Sadr, Seyed Ali
Fall 2024
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 309 Th 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH220209
Multivariable Calculus
Dept;Naseri Sadr, Seyed Ali
Fall 2024
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 309 Th 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220210
Multivariable Calculus
Dept;Naseri Sadr, Seyed Ali
Fall 2024

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 309 Th 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220301
Multivariable Calculus (Honors)
Reeder, Mark
Fall 2024
TBD

Credits: 4
Room and Schedule: Stokes Hall 295S MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220302
Multivariable Calculus (Honors)

Reeder, Mark
Fall 2024
TBD

Credits: 0
Room and Schedule: Gasson Hall 302 Th 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221001
Linear Algebra
Kelmer, Dubi
Fall 2024
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Gasson Hall 206 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221002
Linear Algebra

Ash, Avner D
Fall 2024
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Gasson Hall 210 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221003
Linear Algebra
Ash, Avner D
Fall 2024
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Gasson Hall 210 MWF 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221004
Linear Algebra
Kelmer, Dubi
Fall 2024
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Gasson Hall 206 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221601
Introduction to Abstract Mathematics
Bridgeman, Martin
Fall 2024
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: Gasson Hall 210 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221602
Introduction to Abstract Mathematics
Biringer, Ian P
Fall 2024
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: Gasson Hall 201 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221604
Introduction to Abstract Mathematics
Biringer, Ian P
Fall 2024
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: Gasson Hall 202 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH225001
Mathematical Foundations of Data Science
Zhang, Liyang
Fall 2024
Introduction to the mathematical foundations of data science, including calculus, linear algebra and probability. The first part of the course covers linear algebra, including matrices, systems of linear equations, vector spaces, and eigenvalues and eigenvectors. The second part of the course introduces random variables and provides an introduction to calculus based probability. The third part of the course introduces optimization techniques used in data science. Prerequisite:Math 1101 or Math 1103 or equivalent Calculus 2 background.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

MATH331001
Introduction to Abstract Algebra
Boninger, Joseph
Fall 2024
Students may not take both MATH3310 and MATH3311.. This course studies four fundamental algebraic structures: groups, including subgroups, cyclic groups, permutation groups, symmetry groups, and Lagrange's Theorem; rings, including sub-rings, integral domains, and unique factorization domains; polynomials, including a discussion of unique factorization and methods for finding roots; and fields, introducing the basic ideas of field extensions and ruler and compass constructions.

Credits: 3
Room and Schedule: Gasson Hall 209 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH2210/ADMT2210 or Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH331101
Algebra I
Madapusi, Keerthi S
Fall 2024
Students may not take both MATH3310 and MATH3311.. This course, with MATH3312, studies the basic structures of abstract algebra. Topics include groups, subgroups, factor groups, Lagrange's Theorem, the Sylow Theorems, rings, ideal theory, integral domains, field extensions, and Galois theory.

Credits: 3
Room and Schedule: Gasson Hall 205 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH2210/ADMT2210 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH332001
Introduction to Analysis
Cheung, Chi-Keung
Fall 2024

Students may not take both MATH3320 and MATH3321.. This course gives students the theoretical foundations for the topics taught in Calculus. It covers algebraic and order properties of the real numbers, the least upper bound axiom, limits, continuity, differentiation, the Riemann integral, sequences, and series. Definitions and proofs will be stressed throughout the course.

Credits: 3
Room and Schedule: Gasson Hall 210 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH2202 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH332101
Analysis I
Reeder, Mark
Fall 2024
Students may not take both MATH3320 and MATH3321.. This course, with MATH3322, studies the basic structure of the real numbers. Topics include the least upper bound principle, compactness of closed intervals (the Heine-Borel theorem), sequences, convergence, the Bolzano-Weierstrass theorem, continuous functions, boundedness and intermediate value theorems, uniform continuity, differentiable functions, the mean value theorem, construction of the Riemann integral, the fundamental theorem of calculus, sequences and series of functions, uniform convergence, the Weierstrass approximation theorem, special functions (exponential and trig), and Fourier series.

Credits: 3
Room and Schedule: Gasson Hall 301 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH2202 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate

Comments: None
Status: Offered

MATH431201
Logic for Mathematicians and for Computer Scientists
Straubing, Howard
Fall 2024
A course in mathematical logic for both mathematics and computer science majors. There will be an emphasis on applications in computer science, alongside traditional subject matter. Topics covered include propositional and predicate logic, first-order arithmetic, completeness and incompleteness theorems, computability, automated proof assistants, and satisfiability solvers.

Credits: 3
Room and Schedule: Fulton Hall 250 TuTh 12:00 Noon-01:15PM
Satisifies Core Requirement: None
Prerequisites: CSCI1101 or Some experience and comfort reading and writing mathematical proofs: MATH2216 Introduction toAbstract Mathematics or CSCI2243 Logic and Computationshould provide the basics. Strongly recommended: CSCI1101Computer Science 1, or the equivalent
Corequisites: None
Cross-listed with: CSCI3392
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

MATH441001
Differential Equations
Chen, Qile
Fall 2024

This course is a junior-senior elective intended primarily for students interested in applications of mathematics. Topics include first order linear equations, higher order linear equations with constant coefficients, linear systems, qualitative analysis of non-linear systems, and an introduction to stability and bifurcations.

Credits: 3
Room and Schedule: Gasson Hall 202 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2210/ADMT2210 and MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH441002
Differential Equations
Chen, Qile
Fall 2024
This course is a junior-senior elective intended primarily for students interested in applications of mathematics. Topics include first order linear equations, higher order linear equations with constant coefficients, linear systems, qualitative analysis of non-linear systems, and an introduction to stability and bifurcations.

Credits: 3
Room and Schedule: Gasson Hall 202 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2210/ADMT2210 and MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH442601

Probability
Wolf, Jamison B
Fall 2024
This course provides a general introduction to modern probability theory. Topics include probability spaces, discrete and continuous random variables, joint and conditional distributions, mathematical expectation, the central limit theorem, and the weak law of large numbers. Applications to real data will be stressed, and we will use the computer to explore many concepts.

Credits: 3
Room and Schedule: Gasson Hall 302 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH442602
Probability
Wolf, Jamison B
Fall 2024
This course provides a general introduction to modern probability theory. Topics include probability spaces, discrete and continuous random variables, joint and conditional distributions, mathematical expectation, the central limit theorem, and the weak law of large numbers. Applications to real data will be stressed, and we will use the computer to explore many concepts.

Credits: 3
Room and Schedule: Gasson Hall 302 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH442701
Mathematical Statistics
Cheung, Chi-Keung
Fall 2024
Topics studied include the following: sampling distributions, parametric point and interval estimation, hypothesis testing, goodness-of-fit, and parametric and nonparametric two-sample analysis. Applications to real data will be stressed, and the computer will be used to explore concepts and analyze data.

Credits: 3
Room and Schedule: Carney Hall 202 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: MATH4426
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH445101
Euclidean and Non-Euclidean Geometry
Meyerhoff, G R
Fall 2024
This course surveys the history and foundations of geometry from ancient to modern times. Topics will be selected from Mesopotamian and Egyptian mathematics, Greek geometry, the axiomatic method, history of the parallel postulate, the Lobachevskian plane, Hilbert's axioms for Euclidean geometry, elliptic and projective geometry, the trigonometric formulas, models, and geometry and the study of physical space.

Credits: 3
Room and Schedule: Campion Hall 300 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2216

Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH445501
Mathematical Problem Solving
Lehmann, Brian T
Fall 2024

This course is designed to deepen students' mathematical knowledge through solving, explaining and extending challenging and interesting problems. Students will work both individually and in groups on problems chosen from polynomials, trigonometry, analytic geometry, pre-calculus, one-variable calculus, probability and numerical algorithms. The course will emphasize explanations and generalizations rather than formal proofs and abstract properties. Some pedagogical issues, such as composing good problems and expected points of confusion in explaining various topics, will come up, but the primary goal is mathematical insight. The course will be of particular use to future secondary math teachers.

Credits: 3
Room and Schedule: Stokes Hall 111S MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2210/ADMT2210 and MATH2216 and MATH2202 or Permission of the instructor required for students outside the Lynch School of Education.
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH446001
Complex Variables
Treumann, David L
Fall 2024

This course gives an introduction to the theory of functions of a complex variable, a fundamental and central area of mathematics. It is intended for mathematics majors and well-prepared science majors. Topics covered include complex numbers and their properties, analytic functions and the Cauchy-Riemann equations, the logarithm and other elementary functions of a complex variable, integration of complex functions, the Cauchy integral theorem and its consequences, power series representation of analytic functions, and the residue theorem and applications to definite integrals.

Credits: 3
Room and Schedule: Gasson Hall 307 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2202 and MATH2210/ADMT2210
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH446101
Stochastic Processes
Wolf, Jamison B
Fall 2024
A stochastic process describes the evolution of a system that changes over time in a random manner. This course introduces and studies various properties of some fundamental stochastic processes, including Markov chains in discrete and continuous time, renewal processes, and Brownian motion.

Credits: 3
Room and Schedule: Stokes Hall 201S MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH4426
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH447001
Mathematical Modeling
Slyman, Katherine
Fall 2024
This course introduces students to methods of mathematical modeling. The emphasis is on ways to analytically represent and study today's complex modeling problems, with cases from the natural and social sciences. Topics include the model building process, mathematical models of systems, and modeling data to discover properties and hidden characteristics. The calculus of finite differences and solutions to classes of difference equations will serve as the core mathematical theory taught in this course. The dynamics of certain linear and nonlinear models will be explored from various domains (e.g., population models, economic models, Markov models). The course will conclude with an introduction to mathematical graph theory and its application to modeling interacting and interdependent systems and networks.

Credits: 3
Room and Schedule: 245 Beacon Street Room 214 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2210/ADMT2210 and MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall,Periodically in the Spring
Student Level: Both
Comments: None
Status: Offered

MATH490101
Readings and Research
Cheung, Chi-Keung
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490102
Readings and Research
Goldstein, Ellen J
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490103
Readings and Research
Howard, Benjamin V
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None

Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490104
Readings and Research
Madapusi Pera, Keerthi S
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490105
Readings and Research
Greene, Joshua E
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH496101
Honors Thesis
Lindsey, Kathryn A
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496102
Honors Thesis
Mirollo, Renato
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496103
Honors Thesis
Kelmer, Dubi
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496104
Honors Thesis
Greene, Joshua E
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496105
Honors Thesis
Wolf, Jamison B
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496106
Honors Thesis
Lehmann, Brian T
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496107
Honors Thesis
Reeder, Mark
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496108
Honors Thesis
Baldwin, John A
Fall 2024
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH550001
Advanced Independent Research I
Madapusi Pera, Keerthi S
Fall 2024
TBD

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH550002
Advanced Independent Research I
Mirollo, Renato;Tristan, Jean-Baptiste
Fall 2024
TBD

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH550004
Advanced Independent Research I
Mirollo, Renato
Fall 2024
TBD

Credits: 6
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH810201
INTERIM STUDY
Mirollo, Renato
Fall 2024
INTERIM STUDY

Credits: 0
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Annually
Student Level: Graduate

Comments: None
Status: Offered

MATH880601
Algebra I
Friedberg, Solomon
Fall 2024
This course, with MATH8807, will cover the following topics: group theory (group actions, Sylow, nilpotent/solvable, simple groups, Jordan-Holder series, presentations); commutative algebra (uniqueness of factorization, Jordan decomposition, Dedekind rings, class groups, local rings, Spec); finite fields; algebraic numbers; Galois theory; homological algebra; semisimple algebra.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

MATH880801
Geometry/Topology I
Li, Tao
Fall 2024
This course, with MATH8809, will cover the following topics: point-set topology, fundamental group and covering spaces, smooth manifolds, smooth maps, partitions of unity, tangent and general vector bundles, (co)homology, tensors, differential forms, integration and Stokes' theorem, and de Rham cohomology.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None

Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

MATH881001
Real Analysis
Mirollo, Renato
Fall 2024
Measure theory, Hilbert space, and Fourier theory. Possible topics from Lebesgue measure starting on R, convergence and Fubini theorems, and generalizations to locally compact spaces and groups.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

MATH882001
Introduction to Representation Theory
Jin, Xin
Fall 2024
Introduction of a broad range of representation theory, including representations of finite and compact Lie groups, and finite dimensional representations of complex semisimple Lie groups and Lie algebras, and quantum groups.

Credits: 3
Room and Schedule: O'Neill Library 248 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

MATH882101
Number Theory I
Howard, Benjamin V
Fall 2024
Along with MATH8822, possible topics include factorization of ideals, local fields, local versus global Galois theory, Brauer group, adèles and idèles, class field theory, Dirichlet L-functions, Chebotarev density theorem, class number formula, and Tate's thesis.

Credits: 3
Room and Schedule: Stokes Hall 111S MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Both
Comments: None
Status: Offered

MATH882601
Algebraic Geometry I
Chen, Qile
Fall 2024
Topics may include affine and projective varieties, theory of schemes, sheaves and cohomology, theory of curves and surfaces and more advanced topics chosen by the instructor.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None

Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

MATH883101
Geometry/Topology III
Greene, Joshua E
Fall 2024
This course, along with MATH8832, will cover topics from differential geometry, hyperbolic geometry, three-dimensional manifolds, and knot theory.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH884501
Topics in Algebra and Number Theory
Frechette, Claire
Fall 2024
Selected topics in Algebra and Number Theory.

Credits: 3
Room and Schedule: Gasson Hall 304 MW 04:30PM-05:45PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Periodically in the Fall
Student Level: Both
Comments: None
Status: Offered

MATH885501
Topics in Geometry and Topology
Baldwin, John A
Fall 2024
Selected topics in Geometry and Topology.

Credits: 3
Room and Schedule: Devlin Hall 112 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH886501
Topics in Algebraic Geometry
Ionov, Andrei
Fall 2024
Selected topics in Algebraic Geometry

Credits: 3
Room and Schedule: Gasson Hall 209 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate

Comments: None
Status: Offered

MATH887501
Topics in Deep Learning Theory
Grigsby, Julia E
Fall 2024
Topics course in mathematical aspects of machine learning. The course will begin with an introduction to statistical learning theory and some classical supervised and unsupervised learning algorithms, then survey some motivating modern questions in deep learning theory, with an emphasis on how geometry, topology, and combinatoricsenter the mathematical picture.

Credits: 3
Room and Schedule: 245 Beacon Street Room 104 WF 01:30PM-02:45PM;Wednesday October 30 through Friday December 6
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

MATH888001
Dissertation Research
Madapusi Pera, Keerthi S
Fall 2024
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888002
Dissertation Research
Bridgeman, Martin
Fall 2024
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888003
Dissertation Research
Howard, Benjamin V
Fall 2024
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate

Comments: None
Status: Offered

MATH888004
Dissertation Research
Grigsby, Julia E, PHD
Fall 2024
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888005
Dissertation Research
Bridgeman, Martin
Fall 2024
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888006
Dissertation Research
Reeder, Mark
Fall 2024
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH889001
Graduate Teaching Seminar I
Belding, Juliana V
Fall 2024
This course is designed to assist graduate students in making the transition to the duties of a teaching assistant.

Credits: 1
Room and Schedule: Maloney Hall 560 M 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH889101
Graduate Teaching Seminar II

Mirollo, Renato
Fall 2024
This course is intended to assist graduate students as they make the transition to teaching fellows.

Credits: 1
Room and Schedule: Maloney Hall 560 W 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH889901
Readings and Research
Madapusi, Keerthi S
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889902
Readings and Research
Bridgeman, Martin

Fall 2024

This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889903
Readings and Research
Lehmann, Brian T
Fall 2024

This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889904
Readings and Research
Howard, Benjamin V
Fall 2024

This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889905
Readings and Research
Friedberg, Solomon
Fall 2024
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889906
Readings and Research
Greene, Joshua E
Fall 2024

This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH899101
Curricular Practical Training
Bridgeman, Martin
Fall 2024
This is a one credit course for graduate students seeking credit for off-campus internship work.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

MATH991101
Doctoral Continuation
Bridgeman, Martin
Fall 2024

All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

MATH991102
Doctoral Continuation
Greene, Joshua E
Fall 2024

All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

MATH991103

Doctoral Continuation
Kelmer, Dubi
Fall 2024
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

MATH991104
Doctoral Continuation
Friedberg, Solomon
Fall 2024
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

MATH991105
Doctoral Continuation
Treumann, David L
Fall 2024
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered

MATH991106
Doctoral Continuation
Baldwin, John A
Fall 2024
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate

Comments: None
Status: Offered

Mathematics Courses: Spring 2025

MATH100301
Functions and Differential Calculus II
Goldstein, Ellen J
Spring 2025
This course is a continuation of MATH1002

Credits: 3
Room and Schedule: O'Neill Library 246 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100302
Functions and Differential Calculus II
Goldstein, Ellen J
Spring 2025
This course is a continuation of MATH1002

Credits: 3
Room and Schedule: O'Neill Library 246 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH100401
Finite Probability and Applications
Feng, Enhao
Spring 2025
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100402
Finite Probability and Applications
Doherty, Amy L
Spring 2025

Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Gasson Hall 205 MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100403
Finite Probability and Applications
Hameister, Thomas
Spring 2025
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Gasson Hall 205 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH100404
Finite Probability and Applications
Fang, Tingting
Spring 2025
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Stokes Hall 113S MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100405
Finite Probability and Applications
Mahendraker, Siddharth
Spring 2025

Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Stokes Hall 107S MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100406
Finite Probability and Applications
Zevenbergen, Matthew
Spring 2025
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson (except for Psychology majors completing their second mathematics corequisite).. This course, for students in the humanities, the social sciences, School of Education, and School of Nursing, is an introduction to finite combinatorics and probability, emphasizing applications. Topics include finite sets and partitions, enumeration, probability, expectation, and random variables.

Credits: 3
Room and Schedule: Stokes Hall 217N MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH100701
Ideas in Mathematics
Ward, Erika
Spring 2025
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson. This course is designed to introduce the student to the spirit, beauty, and vitality of mathematics. The emphasis is on development of ideas rather than problem solving skills. Topics vary, but are typically chosen from diverse areas such as geometry, number theory, computation, and graph theory.

Credits: 3
Room and Schedule: Campion Hall 231 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH100702
Ideas in Mathematics
Ward, Erika
Spring 2025
Not open to students who have completed their Mathematics Core Curriculum Requirement without permission of the Department Chairperson. This course is designed to introduce the student to the spirit, beauty, and vitality of mathematics. The emphasis is on development of ideas rather than problem solving skills. Topics vary, but are typically chosen from diverse areas such as geometry, number theory, computation, and graph theory.

Credits: 3
Room and Schedule: Stokes Hall 295S MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110001
Calculus I
Yavuz, Cemre
Spring 2025
MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110002
Calculus I

Yavuz, Cemre
Spring 2025
MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110003
Calculus I
Brown, Sarah V
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110004
Calculus I
Brown, Sarah V
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110005
Calculus I
Brown, Sarah V
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110016
Calculus I
Moss, Eric
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 210 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110017
Calculus I
Moss, Eric
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 4
Room and Schedule: Gasson Hall 210 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110018
Calculus I
Ramakrishnan, Pranavkrishnan
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110019
Calculus I
Ramakrishnan, Pranavkrishnan
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 302 Tu 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110020
Calculus I
Ramakrishnan, Pranavkrishnan
Spring 2025

MATH1100 is not open to students who have completed a calculus course at the college level. Students contemplating majors in Chemistry, Computer Science/B.S., Environmental Geosciences, Geological Sciences, Mathematics, or Physics should enroll in MATH1102.For further information about selecting your Math courses given your background, please see this link to the BC Math Department. MATH1100 is a first course in the calculus of one variable intended for biology, computer science, economics, management, and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. Topics include a brief review of polynomials and trigonometric, exponential, and logarithmic functions, followed by discussion of limits, derivatives, and applications of differential calculus to real-world problem areas. The course concludes with an introduction to integration.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110103
Calculus II
Ionov, Andrei
Spring 2025

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 4
Room and Schedule: Gasson Hall 210 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110104
Calculus II
Ionov, Andrei
Spring 2025

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 4
Room and Schedule: Gasson Hall 210 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110105
Calculus II
Schmidt, August
Spring 2025

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 0
Room and Schedule: Gasson Hall 309 Th 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110106
Calculus II
Schmidt, August
Spring 2025

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 0
Room and Schedule: Gasson Hall 309 Th 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110107
Calculus II
Schmidt, August
Spring 2025

MATH1101 is not open to students who have completed MATH1103. Students contemplating majors in Chemistry, Computer Science B.A. or B.S., Environmental Geosciences, Geological Sciences, Mathematics or Physics should enroll in MATH1103. For further information about selecting your Math courses given your background, please visit the BC Math Department's website. MATH1101 is a second course in the calculus of one variable intended for students studying life or social sciences, such as biology, neuroscience, economics, management and premedical students. It is open to others who are qualified and desire a more rigorous mathematics course at the core level. There are three main topics: integration (definition of integration, basic techniques for integration, and select applications); an introduction to differential equations (with applications to population modeling and other contexts); an introduction to multivariable functions and partial derivatives (with application to optimization in economics and other contexts).

Credits: 0
Room and Schedule: Gasson Hall 203 Th 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110301
Calculus II (Mathematics/Science Majors)
Wolf, Jamison B
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: 245 Beacon Street Room 230 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None

Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110302
Calculus II (Mathematics/Science Majors)
Wolf, Jamison B
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: 245 Beacon Street Room 230 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110303
Calculus II (Mathematics/Science Majors)
Teplitskiy, Mayah
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 0
Room and Schedule: Gasson Hall 309 Th 04:00PM-04:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110304
Calculus II (Mathematics/Science Majors)
Teplitskiy, Mayah
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 0
Room and Schedule: Gasson Hall 301 Th 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110305
Calculus II (Mathematics/Science Majors)
Teplitskiy, Mayah
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 0
Room and Schedule: Gasson Hall 301 Th 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102

Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110306
Calculus II (Mathematics/Science Majors)
Slyman, Katherine
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110307
Calculus II (Mathematics/Science Majors)
Slyman, Katherine
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Fulton Hall 230 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics

Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110308
Calculus II (Mathematics/Science Majors)
Isayev, Edward
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 309 Th 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110309
Calculus II (Mathematics/Science Majors)
Isayev, Edward
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 4
Room and Schedule: Gasson Hall 309 Th 12:00 Noon-12:50PM

Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH110310
Calculus II (Mathematics/Science Majors)
Isayev, Edward
Spring 2025
Not open to students who have completed MATH1105. MATH1103 is a continuation of MATH1102. Topics covered in the course include several algebraic techniques of integration, many applications of integration, and infinite sequences and series.

Credits: 0
Room and Schedule: Gasson Hall 309 Th 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1102
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH118001
Principles of Statistics for the Health Sciences
Zhang, Liyang
Spring 2025

This course introduces statistics as a liberal arts discipline and applies the principles of statistics to problems of interest for health sciences professionals. Students will gain an understanding of statistical ideas and methods, acquire the ability to deal critically with numerical arguments and gain an understanding of the impact of statistical ideas on the health sciences, public policy, and other areas of application.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Open to Connell School of Nursing students only.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH118002
Principles of Statistics for the Health Sciences
Zhang, Liyang
Spring 2025
This course introduces statistics as a liberal arts discipline and applies the principles of statistics to problems of interest for health sciences professionals. Students will gain an understanding of statistical ideas and methods, acquire the ability to deal critically with numerical arguments and gain an understanding of the impact of statistical ideas on the health sciences, public policy, and other areas of application.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 03:00PM-03:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Open to Connell School of Nursing students only.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH118003
Principles of Statistics for the Health Sciences
Lema Perez, Joaquin Ignacio
Spring 2025
This course introduces statistics as a liberal arts discipline and applies the principles of statistics to problems of interest for health sciences professionals. Students will gain an understanding of statistical ideas and methods, acquire the ability to deal critically with numerical arguments and gain an understanding of the impact of statistical ideas on the health sciences, public policy, and other areas of application.

Credits: 3
Room and Schedule: Gasson Hall 302 MWF 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Open to Connell School of Nursing students only.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH118004
Principles of Statistics for the Health Sciences
Lyu, Qingfeng
Spring 2025
This course introduces statistics as a liberal arts discipline and applies the principles of statistics to problems of interest for health sciences professionals. Students will gain an understanding of statistical ideas and methods, acquire the ability to deal critically with numerical arguments and gain an understanding of the impact of statistical ideas on the health sciences, public policy, and other areas of application.

Credits: 3
Room and Schedule: Fulton Hall 310 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Open to Connell School of Nursing students only.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH118005
Principles of Statistics for the Health Sciences
Ganapathy, Gomathy
Spring 2025
This course introduces statistics as a liberal arts discipline and applies the principles of statistics to problems of interest for health sciences professionals. Students will gain an understanding of statistical ideas and methods, acquire the ability to deal critically with numerical arguments and gain an understanding of the impact of statistical ideas on the health sciences, public policy, and other areas of application.

Credits: 3
Room and Schedule: 245 Beacon Street Room 230 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Open to Connell School of Nursing students only.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH119101
Fundamentals of Mathematics II
Ward, Erika
Spring 2025
Restricted to Lynch School of Education students.. As in MATH1190, this course emphasizes building conceptual understanding of the mathematics present in the emerging K-8 curriculum and on deepening the content knowledge. Topics drawn from geometry and measurement, data analysis, statistics, and probability will be developed. Problem solving and reasoning, applications, and making connections will be featured.

Credits: 3
Room and Schedule: Stokes Hall 295S MWF 10:00AM-10:50AM

Satisifies Core Requirement: Mathematics
Prerequisites: MATH1190
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220201
Multivariable Calculus
Li, Tao
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 205 MWF 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220202
Multivariable Calculus
Li, Tao
Spring 2025

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 205 MWF 09:00AM-09:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220203
Multivariable Calculus
Khanna, Harshul
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Higgins Hall 263 Tu 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH220204
Multivariable Calculus
Khanna, Harshul
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Higgins Hall 263 Tu 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220205
Multivariable Calculus
Khanna, Harshul
Spring 2025

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 309 Tu 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220206
Multivariable Calculus
Jin, Xin
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 205 MWF 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH220207
Multivariable Calculus
Jin, Xin
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 4
Room and Schedule: Gasson Hall 205 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220208
Multivariable Calculus
Winters, Ethan
Spring 2025

This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 10:00AM-10:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH220209
Multivariable Calculus
Winters, Ethan
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 11:00AM-11:50AM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH220210
Multivariable Calculus
Winters, Ethan
Spring 2025
This course is for students majoring in Chemistry, Computer Science/B.S., Geology, Geophysics, Mathematics and Physics, as well as other students who have completed Calculus II.. Topics in this course include vectors in two and three dimensions, analytic geometry of three dimensions, parametric curves, partial derivatives, the gradient, optimization in several variables, multiple integration with change of variables across different coordinate systems, line integrals, and Green's Theorem.

Credits: 0
Room and Schedule: Gasson Hall 301 Tu 01:00PM-01:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: Calculus II
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221001
Linear Algebra
Roy, Agniva
Spring 2025
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Gasson Hall 204 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221002
Linear Algebra
Belding, Juliana V
Spring 2025
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Campion Hall 200 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221003
Linear Algebra
Roy, Agniva
Spring 2025

This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Gasson Hall 204 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221004
Linear Algebra
Belding, Juliana V
Spring 2025
This course is an introduction to the techniques of linear algebra in Euclidean space. Topics covered include matrices, determinants, systems of linear equations, vectors in n-dimensional space, complex numbers, and eigenvalues. The course is required of mathematics majors and is also suitable for students in the social sciences, natural sciences, and management.

Credits: 3
Room and Schedule: Campion Hall 200 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221101

Linear Algebra (Honors)
Howard, Benjamin V
Spring 2025
This honors course in Linear Algebra is intended for students with strong preparation and high motivation. Topics covered include matrices, linear equations, determinants, eigenvectors and eigenvalues, vector spaces and linear transformations, inner products, and canonical forms. The course will include significant work with proofs.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2203
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221601
Introduction to Abstract Mathematics
Grigsby, Julia E
Spring 2025
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: Stokes Hall 215N MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221602
Introduction to Abstract Mathematics
Grigsby, Julia E
Spring 2025
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: Stokes Hall 215N MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221603
Introduction to Abstract Mathematics
Baldwin, John A
Spring 2025
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: Gasson Hall 209 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH221604
Introduction to Abstract Mathematics
Baldwin, John A
Spring 2025
This course is designed to develop the student's ability to do abstract mathematics through the presentation and development of the basic notions of logic and proof. Topics include elementary set theory, mappings, integers, rings, complex numbers, and polynomials.

Credits: 3
Room and Schedule: O'Neill Library 253 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH225001
Mathematical Foundations of Data Science
Zhang, Liyang
Spring 2025
Introduction to the mathematical foundations of data science, including calculus, linear algebra and probability. The first part of the course covers linear algebra, including matrices, systems of linear equations, vector spaces, and eigenvalues and eigenvectors. The second part of the course introduces random variables and provides an introduction to calculus based probability. The third part of the course introduces optimization techniques used in data science. Prerequisite:Math 1101 or Math 1103 or equivalent Calculus 2 background.

Credits: 3
Room and Schedule: Fulton Hall 230 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate

Comments: None
Status: Offered

MATH229101
Geometry for Teachers
Belding, Juliana V
Spring 2025
This course is intended for teachers of grades K-9. Geometry now occupies a significant role in the elementary mathematics curriculum. The course will develop ideas for presenting geometry as an activity-based program. Topics include the geoboard and other key manipulatives, elements of motion and Euclidean geometry and suggestions for using Logo as a tool to enhance teaching geometry.

Credits: 3
Room and Schedule: Gasson Hall 201 MWF 02:00PM-02:50PM
Satisifies Core Requirement: Mathematics
Prerequisites: MATH1191 and MATH1190
Corequisites: None
Cross-listed with: None
Frequency: Biannually in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH331001
Introduction to Abstract Algebra
Meyerhoff, G R
Spring 2025
Students may not take both MATH3310 and MATH3311.. This course studies four fundamental algebraic structures: groups, including subgroups, cyclic groups, permutation groups, symmetry groups, and Lagrange's Theorem; rings, including sub-rings, integral domains, and unique factorization domains; polynomials, including a discussion of unique factorization and methods for finding roots; and fields, introducing the basic ideas of field extensions and ruler and compass constructions.

Credits: 3
Room and Schedule: Campion Hall 231 MWF 01:00PM-01:50PM

Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH2210/ADMT2210 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH331201
Algebra II
Fedorchuk, Maksym
Spring 2025
This course, with MATH3311, studies the basic structures of abstract algebra. Topics include groups, subgroups, factor groups, Lagrange's Theorem, the Sylow Theorems, rings, ideal theory, integral domains, field extensions, and Galois theory.

Credits: 3
Room and Schedule: Stokes Hall 295S MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: MATH3311. With the permission of the Assistant Chair for Undergraduates, students who have taken MATH3310 may be allowed to take MATH3312. However, they may need to do additional work on their own in order to make that transition.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH332001
Introduction to Analysis
Lehmann, Brian T
Spring 2025

Students may not take both MATH3320 and MATH3321.. This course gives students the theoretical foundations for the topics taught in Calculus. It covers algebraic and order properties of the real numbers, the least upper bound axiom, limits, continuity, differentiation, the Riemann integral, sequences, and series. Definitions and proofs will be stressed throughout the course.

Credits: 3
Room and Schedule: Gasson Hall 302 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2216 and MATH2202 or Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH332201
Analysis II
Reeder, Mark
Spring 2025
This course, with MATH3321, studies the basic structure of the real numbers. Topics include the least upper bound principle, compactness of closed intervals (the Heine-Borel theorem), sequences, convergence, the Bolzano-Weierstrass theorem, continuous functions, boundedness and intermediate value theorems, uniform continuity, differentiable functions, the mean value theorem, construction of the Riemann integral, the fundamental theorem of calculus, sequences and series of functions, uniform convergence, the Weierstrass approximation theorem, special functions (exponential and trig), and Fourier series.

Credits: 3
Room and Schedule: Gasson Hall 204 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: MATH3321. With the permission of the Assistant Chair for Undergraduate Programs, students who have taken MATH3320 may be allowed to take MATH3322. However, they may need to do additional work on their own in order to make that transition.
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH431101
Formal Methods
McTague, Carl S
Spring 2025
Complex programs often have bugs, sometimes with serious consequences. Although testing can help root them out, it is impossible to test all possible behaviors of complex programs. To complement testing, one can construct mathematical proofs that programs are correct. This technique, called formal verification, can be done using a tool for writing and automatically checking such proofs. This course introduces formal verification with one such proof checking system called Coq. Students will write precise specifications of how programs should behave, and then carry out proofs in Coq showing that those specifications are met.

Credits: 3
Room and Schedule: 245 Beacon Street Room 229 MW 04:30PM-05:45PM
Satisifies Core Requirement: None
Prerequisites: CSCI1102 and CSCI2243
Corequisites: None
Cross-listed with: CSCI3393
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH441001
Differential Equations
Treumann, David L
Spring 2025

This course is a junior-senior elective intended primarily for students interested in applications of mathematics. Topics include first order linear equations, higher order linear equations with constant coefficients, linear systems, qualitative analysis of non-linear systems, and an introduction to stability and bifurcations.

Credits: 3
Room and Schedule: Gasson Hall 210 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2210/ADMT2210 and MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH441002
Differential Equations
Treumann, David L
Spring 2025
This course is a junior-senior elective intended primarily for students interested in applications of mathematics. Topics include first order linear equations, higher order linear equations with constant coefficients, linear systems, qualitative analysis of non-linear systems, and an introduction to stability and bifurcations.

Credits: 3
Room and Schedule: Gasson Hall 210 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2210/ADMT2210 and MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH442601

Probability
Gross, Robert
Spring 2025
This course provides a general introduction to modern probability theory. Topics include probability spaces, discrete and continuous random variables, joint and conditional distributions, mathematical expectation, the central limit theorem, and the weak law of large numbers. Applications to real data will be stressed, and we will use the computer to explore many concepts.

Credits: 3
Room and Schedule: Gasson Hall 303 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH442602
Probability
Gross, Robert
Spring 2025
This course provides a general introduction to modern probability theory. Topics include probability spaces, discrete and continuous random variables, joint and conditional distributions, mathematical expectation, the central limit theorem, and the weak law of large numbers. Applications to real data will be stressed, and we will use the computer to explore many concepts.

Credits: 3
Room and Schedule: Gasson Hall 201 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2202
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH442701
Mathematical Statistics
Wolf, Jamison B
Spring 2025
Topics studied include the following: sampling distributions, parametric point and interval estimation, hypothesis testing, goodness-of-fit, and parametric and nonparametric two-sample analysis. Applications to real data will be stressed, and the computer will be used to explore concepts and analyze data.

Credits: 3
Room and Schedule: Gasson Hall 302 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: MATH4426
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH443001
Introduction to Number Theory
Ash, Avner D
Spring 2025
Topics include divisibility, unique factorization, congruences, number-theoretic functions, primitive roots, diophantine equations, continued fractions, quadratic residues and the distribution of primes. Historical background for various problems and examples useful in the secondary school curriculum will be presented.

Credits: 3
Room and Schedule: Higgins Hall 225 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: MATH2216
Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH444001
Dynamical Systems
Slyman, Katherine
Spring 2025
This course is an introduction to nonlinear dynamics and their applications, emphasizing qualitative methods for differential equations. Topics include fixed and periodic points, stability, linearization, parameterized families and bifurcations, and existence and nonexistence theorems for closed orbits in the plane. The final part of the course is an introduction to chaotic systems and fractals, including the Lorenz system and the quadratic map.

Credits: 3
Room and Schedule: Campion Hall 200 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: MATH2202 and MATH2210/ADMT2210
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH445301
Euclid's *Elements*
Goldstein, Ellen J
Spring 2025

This course is a close reading of Euclid's *Elements* in seminar style, with careful attention to axiomatic reasoning and mathematical constructions that build on one another in a sequence of logical arguments. We will also emphasize clear and creative communication on mathematical ideas, with some attention to the cultural background of the *Elements* and its place in a modern education.

Credits: 3
Room and Schedule: Campion Hall 200 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH446001
Complex Variables
Friedberg, Solomon
Spring 2025
This course gives an introduction to the theory of functions of a complex variable, a fundamental and central area of mathematics. It is intended for mathematics majors and well-prepared science majors. Topics covered include complex numbers and their properties, analytic functions and the Cauchy-Riemann equations, the logarithm and other elementary functions of a complex variable, integration of complex functions, the Cauchy integral theorem and its consequences, power series representation of analytic functions, and the residue theorem and applications to definite integrals.

Credits: 3
Room and Schedule: Campion Hall 302 MW 03:00PM-04:15PM
Satisifies Core Requirement: None
Prerequisites: MATH2202 and MATH2210/ADMT2210
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH446201
Topology
Boninger, Joseph
Spring 2025
This course is an introduction to point-set topology. Topics include topological spaces, continuous functions, connectedness, compactness, metric spaces, the Urysohn Metrization Theorem, manifolds, the fundamental group and the classification of surfaces. We will also discuss applications of these concepts to problems in science and engineering.

Credits: 3
Room and Schedule: 245 Beacon Street Room 214 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: MATH2216
Corequisites: MATH3320 or MATH3321 is recommended as a pre/corequisite.
Cross-listed with: None
Frequency: Every Fall
Student Level: Undergraduate
Comments: None
Status: Offered

MATH446501
Advanced Data Analysis
Cheung, Chi-Keung
Spring 2025
In this course, we will explore various popular statistical methods used in data science. The course will be both theoretical (mathematical) and applied (data- analytic). The mathematical theorems and proofs are an essential part of the course. Part I: Standard Advanced Statistics topicsBayesian Analysis, Analysis of Variance, Bootstrap (Parametric and Non-Parametric), Generalized Linear Regressions, Generalized additive model etc.Part II: Statistical Methods for the 21st century data analysis Principal Component Analysis, Large Scale Hypothesis Testing, Ridge and Lasso Regressions, Random Forest, Support Vector Machines etc.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 12:00 Noon-12:50PM

Satisifies Core Requirement: None
Prerequisites: Prerequisite MATH4427
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Undergraduate
Comments: None
Status: Offered

MATH448001
Topics in Mathematics
Sonthalia, Rishi
Spring 2025
Topics for this one-semester course vary from year to year according to the interests of faculty and students. With department permission it may be repeated.

Credits: 3
Room and Schedule: Gasson Hall 203 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: Varies according to course topics.
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH448002
Topics in Mathematics
Frechette, Claire
Spring 2025
Topics for this one-semester course vary from year to year according to the interests of faculty and students. With department permission it may be repeated.

Credits: 3
Room and Schedule: Gasson Hall 201 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None

Prerequisites: Varies according to course topics.
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH448003
Topics in Mathematics
Sonthalia, Rishi
Spring 2025
Topics for this one-semester course vary from year to year according to the interests of faculty and students. With department permission it may be repeated.

Credits: 3
Room and Schedule: Gasson Hall 204 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: Varies according to course topics.
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490101
Readings and Research
Chen, Qile
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490102
Readings and Research
Zhang, Liyang
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490103
Readings and Research
Kelmer, Dubi
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490104
Readings and Research
Chen, Dawei
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490105
Readings and Research
Madapusi Pera, Keerthi S
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None

Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490106
Readings and Research
Grigsby, Julia E
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490107
Readings and Research
Cheung, Chi-Keung
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH490108
Readings and Research
Cheung, Chi-Keung
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490201
Readings and Research
Cheung, Chi-Keung
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH490202
Readings and Research
Chen, Dawei
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH490203
Readings and Research
Chen, Dawei
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate

Comments: None
Status: Offered

MATH496101
Honors Thesis
Wolf, Jamison B
Spring 2025
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496102
Honors Thesis
Greene, Joshua E
Spring 2025
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH496103
Honors Thesis
Mirollo, Renato
Spring 2025
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496104
Honors Thesis
Lindsey, Kathryn A
Spring 2025
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None

Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH496105
Honors Thesis
Reeder, Mark
Spring 2025
This course may be taken to complete the requirements for Departmental Honors in Mathematics. Students must make arrangements with an individual faculty member, and receive permission from the Assistant Chair for Undergraduates.

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH550101
Advanced Independent Research II
Lindsey, Kathryn A;Mirollo, Renato;Tristan, Jean-Baptiste
Spring 2025
TBD

Credits: 6
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring

Student Level: Undergraduate
Comments: None
Status: Offered

MATH550102
Advanced Independent Research II
Madapusi Pera, Keerthi S
Spring 2025
TBD

Credits: 6
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH550103
Advanced Independent Research II
Madapusi Pera, Keerthi S
Spring 2025
TBD

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH550104
Advanced Independent Research II
Mirollo, Renato
Spring 2025
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

MATH810201
INTERIM STUDY
Mirollo, Renato
Spring 2025
INTERIM STUDY

Credits: 0
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Annually
Student Level: Graduate
Comments: None
Status: Offered

MATH880701
Algebra II
Fedorchuk, Maksym

Spring 2025

This course, with MATH8806, will cover the following topics: group theory (group actions, Sylow, nilpotent/solvable, simple groups, Jordan-Holder series, presentations); commutative algebra (uniqueness of factorization, Jordan decomposition, Dedekind rings, class groups, local rings, Spec); finite fields; algebraic numbers; Galois theory; homological algebra; semisimple algebra.

Credits: 3
Room and Schedule: Gasson Hall 207 MWF 03:00PM-03:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH880901
Geometry/Topology II
Meyerhoff, G R
Spring 2025

This course, with MATH8808, will cover the following topics: Point-set topology, fundamental group and covering spaces, smooth manifolds, smooth maps, partitions of unity, tangent and general vector bundles, (co)homology, tensors, differential forms, integration and Stokes' theorem, and de Rham cohomology.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 09:00AM-09:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH881101
Complex Analysis
Bridgeman, Martin
Spring 2025
Local and global theory of analytic functions of one variable.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 10:00AM-10:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH882201
Number Theory II
Howard, Benjamin V
Spring 2025
Along with MATH8821, possible topics include factorization of ideals, local fields, local-versus-global Galois theory, Brauer group, adles and idles, class field theory, Dirichlet L-functions, Chebotarev density theorem, class number formula and Tate's thesis.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Both
Comments: None
Status: Offered

MATH882701

Algebraic Geometry II
Lehmann, Brian T
Spring 2025
A continuation of topics in MATH 8826 Algebraic Geometry I

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 11:00AM-11:50AM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

MATH884501
Topics in Algebra and Number Theory
Kelmer, Dubi
Spring 2025
Selected topics in Algebra and Number Theory.

Credits: 3
Room and Schedule: Gasson Hall 309 MWF 02:00PM-02:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Fall
Student Level: Both
Comments: None
Status: Offered

MATH885501
Topics in Geometry and Topology
Biringer, Ian P
Spring 2025

Selected topics in Geometry and Topology.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 12:00 Noon-12:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Periodically in the Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH888001
Dissertation Research
Biringer, Ian P;Bridgeman, Martin
Spring 2025
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888002
Dissertation Research
Bridgeman, Martin
Spring 2025
TBD

Credits: 3
Room and Schedule: BY ARRANGEMENT

Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888003
Dissertation Research
Friedberg, Solomon
Spring 2025
TBD

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888004
Dissertation Research
Madapusi Pera, Keerthi S
Spring 2025
TBD

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None

Cross-listed with: None
Frequency: Every Fall
Student Level: Graduate
Comments: None
Status: Offered

MATH888501
Topics in Representation theory
Leslie, Winston S
Spring 2025
This is a graduate topics course in representation theory. Sample topics include the following: Algebraic groups, representations of real and p-adic groups, geometric/categorical representation theory, modular representation theory.

Credits: 3
Room and Schedule: Maloney Hall 560 MWF 01:00PM-01:50PM
Satisifies Core Requirement: None
Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: null
Student Level: Graduate
Comments: None
Status: Offered

MATH889201
Graduate Research Seminar
Leslie, Winston S
Spring 2025
The research seminar is an opportunity for students to present their own research or give lectures on advanced topics. Participation in the research seminar is encouraged by the department. Students may be required by their advisors to participate and/or speak in the research seminar.

Credits: 1
Room and Schedule: BY ARRANGEMENT
Satisifies Core Requirement: None

Prerequisites: None
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889901
Readings and Research
Lindsey, Kathryn A
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889902
Readings and Research
Chen, Dawei
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department

Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889903
Readings and Research
Grigsby, Julia E
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889904
Readings and Research
Howard, Benjamin V
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None

Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889905
Readings and Research
Baldwin, John A
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889906
Readings and Research
Bridgeman, Martin
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None

Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH889907
Readings and Research
Mirollo, Renato
Spring 2025
This is an independent study course, taken under the supervision of a Mathematics Department faculty member. Interested students should see the Director of the Graduate Program.

Credits: 3
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring
Student Level: Graduate
Comments: None
Status: Offered

MATH899101
Curricular Practical Training
Bridgeman, Martin
Spring 2025
This is a one credit course for graduate students seeking credit for off-campus internship work.

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate

Comments: None
Status: Offered

MATH991101
Doctoral Continuation
Mirollo, Renato
Spring 2025
All students who have been admitted to candidacy for the Ph.D. degree are required to register and pay the fee (tuition credits can be used for this) for doctoral continuation during each semester of their candidacy when they are taking no other courses. Doctoral Continuation requires a commitment of at least 20 hours per week working on the dissertation

Credits: 1
Room and Schedule: By Arrangement
Satisifies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Fall,Every Spring,Every Summer
Student Level: Graduate
Comments: None
Status: Offered
