

# UNIVERSITY SENATE MEETING MINUTES

The regular meeting of the University Senate was not held on  
Monday, December 9, 2019 at 4:00 p.m.

## 1. December 2019 University Senate Meeting Canceled by SEC

The regular meeting of the University Senate was canceled by the Senate Executive Committee.

The following communication went out from Senate Executive Committee Chair Veronica Makowsky Friday, December 4, 2019:

Dear Colleagues:

The Senate Executive Committee is presented with the very unusual scenario of a light agenda (as opposed to our normal lengthy and serious ones) for the December 9th meeting of the University Senate. We have checked with all the relevant parties; there is no time-sensitive business. Consequently, the December meeting of the University Senate is cancelled. You will receive an electronic ballot for the consent agenda; please respond to the ballot so that we have a quorum and can accomplish this business.

We are very grateful for all your work and participation this semester and look forward to seeing you in February.

Have a lovely break!

Veronica Makowsky, Chair,  
On behalf of the Senate Executive Committee

The Consent Agenda vote was done electronically —see next item.

## 2. Consent Agenda Item(s)

### A. Senate Curricula and Courses Committee Report

**See supporting materials to these minutes.**

Due to the cancelation of the regular Senate meeting, the vote for the Consent Agenda was conducted via email.

The Consent Agenda was sent to Senate members two days in advance of opening the vote, in case there were any motions to remove items. None were received, so the vote was called electronically.

**The consent agenda was adopted unanimously, with 55 Senate members (62%) responding to the email call to vote.**

The University Senate will resume its regular meeting schedule at the next scheduled meeting, Monday, February 3, 2020, at 4:00 p.m. in the Rome Ballroom, Storrs campus.

**Minutes for this meeting respectfully submitted by Susanna Cowan, Senate Secretary.**

**Senate Executive Committee**

Veronica Makowsky, Chair  
Carol Atkinson-Palombo  
Rajeev Bansal  
Justin Fang  
Hedley Freake  
Andrea Hubbard

Debra Kendall  
Gustavo Nanclares  
Angela Rola  
Priyanka Thakkar  
Jaci Van Heest

**University Senate Curricula and Courses Committee**  
**Report to the Senate**  
**December 9, 2019**

**I. The Senate Curricula and Courses Committee recommends ADDITION the following 1000- or 2000-level courses:**

A. CSE 2301 Principles and Practice of Digital Logic Design (#12908)

*Proposed Catalog Copy*

CSE 2301. Principles and Practices of Digital Logic Design Course

4.00 credits.

Prerequisite: CSE 1010 and high school physics or PHYS 1010Q or 1201Q or 1401Q or 1501Q or 1601Q.

Grading Basis: Graded

Representation of digital information. Analysis, design, and evaluation of combinational and sequential logic circuits. Debugging techniques. Use of computer facilities for circuit simulation, CAD, and report preparation and presentation. Introduction to structure and operation of digital computers. Design projects with written reports.

B. EDLR 2010 Leadership Theory and Practice in Sport Management (#11518) [NOTE: This course was DECLINED by GEOC for CA2. Adding new course only.]

*Proposed Catalog Copy*

EDLR 2010. Leadership Theory and Practice in Sport Management

3.00 credits

Grading Basis: Graded

Examines multiple perspectives of leadership studied and utilized within the sport industry. Covers individual, interpersonal, and team-based skills required in leadership roles; differentiating leadership from management; strategic and innovative leadership; and communicating as a leader.

C. ENGL 2020W Technical Writing and Design (#11357) [New W course approved by GEOC]

*Proposed Catalog Copy*

ENGL 2020W. Technical Writing and Design

3.00 credits

Prerequisite: ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

Fundamentals of writing, design, and editing in professional settings. A focus on written genres.

D. GSCI 2800 Our Evolving Atmosphere (#6867) [Approved for CA3, Declined for EL]

*Proposed Catalog Copy*

GSCI 2800. Our Evolving Atmosphere

3.00 credits. Not open for credit to students who have passed NRE 3145 or NRE 3146.

Grading Basis: Graded

An introduction to atmospheric science, including a history of the field, features of the atmosphere, weather forecasting, and a geologic history of climate change. CA 3.

E. JOUR 2065 Mobile Storytelling (#11659)

*Proposed Catalog Copy*

JOUR 2065. Mobile Storytelling

3.00 credits.

Prerequisite or Corequisite: JOUR 1002. Open to sophomores or higher.

Grading Basis: Graded

Entry-level photojournalism course that develops aesthetic and technical skills for storytelling using mobile equipment such as smartphones.

F. MARN 1893 International Study (#13630)

*Proposed Catalog Copy*

MARN 1893. International Study

1.00- 6.00 credits. May be repeated for credit.

Prerequisites: Consent of department head

Grading Basis: Graded

Special topics taken in an international study program. Credits and hours by arrangement up to a maximum of six credits. Consultation with Marine Sciences program coordinator recommended prior to the student's departure. With a change of content, may be repeated for credit.

G. MARN 2893 International Study (#13456)

*Proposed Catalog Copy*

MARN 2893. International Study

1.00 - 6.00 credits. May be repeated for credit.

Prerequisites: Consent of department head

Grading Basis: Graded

Special topics taken in an international study program. Credits and hours by arrangement up to a maximum of six credits. Consultation with Marine Sciences program coordinator recommended prior to the student's departure. With a change of content, may be repeated for credit.

H. MATH 2705W Technical Writing in Mathematics (#11517) [New W – Approved by GEOC]

*Proposed Catalog Copy*

1.00 credit.

Prerequisites: ENGL 1010 or 1011 or 2011, and MATH 1132Q or 2141Q. Open only to Mathematics majors. Prerequisite or corequisite: Math 2110Q, 2142Q, 2210Q, or 2410Q.

Grading Basis: Graded

An introduction to the communication of mathematics through formal writing.

I. NURS 1131 Introduction to the Discipline of Nursing (#12344)

*Proposed Catalog Copy*

NURS 1131. Introduction to the Discipline of Nursing

3.00 credits

Prerequisite: NURS 1130. Not open for credit to students who have passed NURS 1110.

Grading Basis: Graded

An examination of the history, values, language, and theories of the nursing discipline to create a platform of understanding and commonality for all future nursing courses.

**II. The Senate Curricula and Courses Committee recommends REVISION the following 1000- or 2000-level courses:**

A. AAAS/HIST 3841 Empire and Nation in Southeast Asia (#13885) [Revise course number]

*Current Catalog Copy*

AAAS 3841. Empire and Nation in Southeast Asia

Also offered as: HIST 3841

3.00 credits

Prerequisites: Open to sophomores or higher.

Grading Basis: Graded

Major themes in modern Southeast Asian history from the 17th century to the present: growth of global commerce; western imperialism; nationalism; emergence of independent nation-states; challenges of the post-independence period. Emphasis on the region's largest countries: Burma, Cambodia, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam.

HIST 3841. Empire and Nation in Southeast Asia

Also offered as: AAAS 3841

3.00 credits

Prerequisites: Open to sophomores or higher.

Grading Basis: Graded

Major themes in modern Southeast Asian history from the 17th century to the present: growth of global commerce; western imperialism; nationalism; emergence of independent nation-states; challenges of the post-independence period. Emphasis on the region's largest countries: Burma, Cambodia, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam.

*Revised Catalog Copy*

AAAS 2841. Empire and Nation in Southeast Asia

Also offered as: HIST 2841

3.00 credits

Grading Basis: Graded

Major themes in modern Southeast Asian history from the 17th century to the present: growth of global commerce; western imperialism; nationalism; emergence of independent nation-states;

challenges of the post-independence period. Emphasis on the region's largest countries: Burma, Cambodia, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam.

HIST 2841. Empire and Nation in Southeast Asia

Also offered as: AAAS 2841

3.00 credits

Grading Basis: Graded

Major themes in modern Southeast Asian history from the 17th century to the present: growth of global commerce; western imperialism; nationalism; emergence of independent nation-states; challenges of the post-independence period. Emphasis on the region's largest countries: Burma, Cambodia, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam.

- B. ANTH 2600 Applied Research and Microscopy in Archaeobotany (#12283) [Revise Title; Add CA3-Lab – GEOC Approved]

*Current Catalog Copy*

ANTH 2600. Applied Research and Microscopy in Archaeobotany

4.00 credits.

Recommended Preparation: STAT 1000Q or STAT 1100Q; ENGL 1010 or 1011 or 2011. Not open for credit to students who have passed ANTH 3095 when taught as “Applied Research in Archaeobotany.”

Grading Basis: Graded

Introduction to research trends in archaeobotany and use of microscopy tools. Design and execution of a research project.

*Revised Catalog Copy*

ANTH 2600. Microscopy in Applied Archaeobotany Research

4.00 credits.

Recommended Preparation: STAT 1000Q or STAT 1100Q; ENGL 1010 or 1011 or 2011. Not open for credit to students who have passed ANTH 3095 when taught as “Applied Research in Archaeobotany.”

Grading Basis: Graded

Introduction to research trends in archaeobotany and use of microscopy tools. Design and execution of a research project. CA 3-LAB.

- C. GERM 1131 Elementary German I (#13156) [Revise number and description]

*Current Catalog Copy*

GERM 1131. Elementary German I

4.00 Credits

Prerequisites: Not open to students who have had three or more years of German in high school, GERM 1111, 1112, 1113, 1114, 1132, 1133, 1134 or any 2000 level or higher course taught in German.

Grading Basis: Graded

Fundamentals of German. Presentation of dialogues, conversation, vocabulary building, grammar and culture. Emphasis on speaking, oral comprehension, reading of simple texts and writing, to satisfy basic survival needs within a cultural setting.

*Revised Catalog Copy*

GERM 1001. Elementary German I

4.00 credits.

Prerequisites: May not be taken out of sequence after passing GERM 1002, 1003, or 1004. May not be taken for credit after passing any 2000-level or above course taught in German, or three or more years of high school German.

Grading Basis: Graded

Using project-based learning and authentic materials, students will learn to communicate in the German language about familiar topics and gain intercultural competence.

D. GERM 1132 Elementary German II (#13178) [Revise number and description]

*Current Catalog Copy*

GERM 1131. Elementary German I

4.00 Credits

Prerequisites: Not open to students who have had three or more years of German in high school, GERM 1111, 1112, 1113, 1114, 1132, 1133, 1134 or any 2000 level or higher course taught in German.

Grading Basis: Graded

Fundamentals of German. Presentation of dialogues, conversation, vocabulary building, grammar and culture. Emphasis on speaking, oral comprehension, reading of simple texts and writing, to satisfy basic survival needs within a cultural setting.

*Revised Catalog Copy*

GERM 1001. Elementary German I

4.00 credits.

Prerequisites: May not be taken out of sequence after passing GERM 1002, 1003, or 1004. May not be taken for credit after passing any 2000-level or above course taught in German, or three or more years of high school German.

Grading Basis: Graded

Using project-based learning and authentic materials, students will learn to communicate in the German language about familiar topics and gain intercultural competence.

E. GSCI 1000E The Human Epoch: Living in the Anthropocene (#12164) [Add CA3 – GEOC Approved]

*Current Catalog Copy*

GSCI 1000E. The Human Epoch: Living in the Anthropocene

3.00 credits.

Grading Basis: Graded

Introduction to geoscience focusing on human activities as agents of geologic change. Examines human planetary processes in our current epoch, the Anthropocene. Provides a novel frame for contemporary environmental issues such as climate change, sustainability, mass extinctions, land use, and waste disposal. Interaction between earthly processes and human affairs.

*Revised Catalog Copy*

GSCI 1000E. The Human Epoch: Living in the Anthropocene

3.00 credits.

Grading Basis: Graded

Introduction to geoscience focusing on human activities as agents of geologic change. Examines human planetary processes in our current epoch, the Anthropocene. Provides a novel frame for contemporary environmental issues such as climate change, sustainability, mass extinctions, land use, and waste disposal. Interaction between earthly processes and human affairs. CA 3.

F. HEJS 1153 Intermediate Modern Hebrew I (#14176) [Revise number and description]

*Current Catalog Copy*

HEJS 1153. Intermediate Hebrew I

4.00 credits

Prerequisites: HEJS 1152 or equivalent

Grading Basis: Graded

Review of elementary Hebrew grammar. Graded composition and translation. Intensive and extensive reading. Oral practice in the language. The basic structure patterns of Hebrew.

*Revised Catalog Copy*

HEJS 1003. Intermediate Modern Hebrew I

4.00 credits

Prerequisites: HEJS 1002 or equivalent. May not be taken out of sequence after passing HEJS 1004. May not be taken for credit after passing HEJS 3151.

Grading Basis: Graded

Building on first-year skills, more advanced grammar, vocabulary, and conversation. Examples from popular media and culture along with short readings continue to enhance students' language acquisition.

G. HEJS 1154 Intermediate Modern Hebrew II (#14175) [Revise number and description]

*Current Catalog Copy*

HEJS 1154. Intermediate Hebrew II

4.00 credits

Prerequisites: HEJS 1153

Grading Basis: Graded

Review of elementary Hebrew grammar. Graded composition and translation. Intensive and extensive reading. Oral practice in the language. The basic structure patterns of Hebrew.



*Revised Catalog Copy*

HEJS 1004. Intermediate Modern Hebrew II

4.00 credits

Prerequisites: HEJS 1003 or equivalent. May not be taken for credit after passing HEJS 3151.

Grading Basis: Graded

More advanced communicative proficiency using readings and examples from media and popular culture. Focus on grammar, vocabulary, and conversation with more context from the history, culture, and religious traditions of the Jewish people.

- H. HIST/AFRA/LLAS 3621 Cuba in Local and Global Perspective (#13783) [Revise course number and add cross-listings]

*Current Catalog Copy*

HIST 3621. Cuba in Local and Global Perspective

3.00 credits

Grading Basis: Graded

Major themes in Cuban politics and culture. Local and global perspective. Key topics include race, gender, class, cultural movements and practices, slavery, political economy and movements, nationalism.

*Revised Catalog Copy*

HIST 2621. Cuba in Local and Global Perspective

Also offered as: LLAS 2621 and AFRA 2621

3.00 credits

Grading Basis: Graded

Major themes in Cuban politics and culture. Local and global perspective. Key topics include race, gender, class, cultural movements and practices, slavery, political economy and movements, nationalism.

LLAS 2621. Cuba in Local and Global Perspective

Also offered as: HIST 2621 and AFRA 2621

3.00 credits

Grading Basis: Graded

Major themes in Cuban politics and culture. Local and global perspective. Key topics include race, gender, class, cultural movements and practices, slavery, political economy and movements, nationalism.

AFRA 2621. Cuba in Local and Global Perspective

Also offered as: LLAS 2621 and HIST 2621

3.00 credits

Grading Basis: Graded

Major themes in Cuban politics and culture. Local and global perspective. Key topics include race, gender, class, cultural movements and practices, slavery, political economy and movements, nationalism.

- I. MARN 2801W Marine Sciences and Society (#11738) [Revise description; add EL – approved by GEOC]

*Current Catalog Copy*

MARN 2801W. Marine Sciences and Society

Second semester (Avery Point)

3.00 credits

Prerequisite: MARN 1002 or 1003; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

Scientific analysis of coastal zone issues and their implications for society. Written analysis and discussion of primary literature.

*Revised Catalog Copy*

MARN 2801WE. Marine Sciences and Society

3.00 credits

Prerequisite: MARN 1002 or 1003; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

Scientific analysis of coastal zone issues and interdisciplinary implications for society, including theories, observations, and models of how humans impact the health and well-being of the natural world and how the natural world impacts the health of humans. Topics incorporate public policies, legal frameworks, and moral and/or ethical dimensions regarding the environment. Written analysis and discussion of primary literature.

- J. PHIL 2221/W Ancient Greek Philosophy (#12705) [Revise title and description – Changes approved by GEOC; Add CAMS W cross-listing]

*Current Catalog Copy*

PHIL 2221. Ancient Philosophy

Also offered as: CAMS 3257.

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107.

Grading Basis: Graded

Greek philosophy from its origin in the Pre-Socratics through its influence on early Christianity. Readings from the works of Plato and Aristotle.

PHIL 2221W. Ancient Philosophy

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

CAMS 3257. Ancient Philosophy

Also offered as: PHIL 2221

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107.

Grading Basis: Graded

Greek philosophy from its origin in the Pre-Socratics through its influence on early Christianity.

Readings from the works of Plato and Aristotle.

*Revised Catalog Copy*

PHIL 2221. Ancient Greek Philosophy

Also offered as CAMS 3257.

3.00 credits.

Prerequisite: At least one of PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107.

Grading Basis: Graded

Greek philosophy from its origin in the Pre-Socratics through its influence on early Christianity.

Readings from the works of Plato and Aristotle. May include related ancient philosophical traditions.

PHIL 2221W. Ancient Greek Philosophy

Also offered as: CAMS 3257W

3.00 credits.

Prerequisite: At least one of PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

CAMS 3257. Ancient Greek Philosophy

Also offered as: PHIL 2221

3.00 credits.

Prerequisite: At least one of PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107.

Grading Basis: Graded

Greek philosophy from its origin in the Pre-Socratics through its influence on early Christianity.

Readings from the works of Plato and Aristotle. May include related ancient philosophical traditions.

CAMS 3257W. Ancient Greek Philosophy

Also offered as: PHIL 2221W

3.00 credits.

Prerequisite: At least one of PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

- K. PHIL 2222/W Early Modern European Philosophy (#12704) [Revise title – Changes approved by GEOC]

*Current Catalog Copy*

PHIL 2222. Seventeenth and Eighteenth-Century Philosophy

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107.

Grading Basis: Graded

Central philosophical issues as discussed by philosophers such as Descartes, Locke, Berkeley, Hume and Kant.

PHIL 2222W. Seventeenth and Eighteenth-Century Philosophy

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

*Revised Catalog Copy*

PHIL 2222. Early Modern European Philosophy

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107.

Grading Basis: Graded

Central philosophical issues as discussed by philosophers such as Descartes, Locke, Berkeley, Hume and Kant.

PHIL 2222W. Early Modern European Philosophy

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106, or 1107; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

**III. The Senate Curricula and Courses Committee recommends DELETION of the following 1000- or 2000-level courses:**

- A. NUSC 2241 Nutritional Assessment (#14047)

**IV. The General Education Oversight Committee and the Senate Curricula and Courses Committee recommend ADDITION of the following 3000- or 4000-level existing courses into the General Education curriculum:**

- A. MCB 3844W Microbes and the Media (#7029) [New W approved by GEOC]

*Proposed Catalog Copy*

MCB 3844W. Microbiology and the Media

3.00 credits

Prerequisites: ENGL 1010 or 1011 or 2011; at least two MCB courses at the 2000 level or above. Open only to MCB and Biological Sciences majors; others by permission.

Grading Basis: Graded

Analysis and comparison of how contemporary microbiological topics, such as food-borne diseases and influenza outbreaks, are represented in the scientific literature and in popular media.

B. MCB 3849W Symbiosis: The Science of Living Together (#12505) [New W – Approved by GEOC]

*Proposed Catalog Copy*

MCB 3849W. Symbiosis: The Science of Living Together

3.00 credits

Prerequisites: ENGL 1010 or 1011 or 2011; MCB 2610. Recommended Preparation: any additional 2000-level MCB course.

Grading Basis: Graded

All animals and plants enter into lifelong associations with beneficial microorganisms that have a profound impact on host development and health. Readings from the scientific literature will explore the molecular mechanisms by which these complex associations are established and maintained in various model systems.

**V. The General Education Oversight Committee and the Senate Curricula and Courses Committee recommend REVISION of the following 3000- or 4000-level existing courses within or into the General Education curriculum:**

A. CSE 4939W Computer Science and Engineering Design Project I (#12023) [Revise prereqs]

*Current Catalog Copy*

CSE 4939W. Computer Science and Engineering Design Project I

3.00 credits

Prerequisite: One of CSE 4100, 4102, or 4300, which may be taken concurrently; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

The first semester of the required two-semester major design experience. Working on a team, students will propose, design, produce, and evaluate a software and/or hardware system. Will culminate in the delivery of the design, analysis, and initial working system, to be used as a basis for CSE 4940, formal public presentation, and written documentation. Oral and written progress reports are required.

*Revised Catalog Copy*

CSE 4939W. Computer Science and Engineering Design Project I

3.00 credits

Prerequisite: CSE3100, CSE3500, Senior by credit; ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

The first semester of the required two-semester major design experience. Working on a team, students will propose, design, produce, and evaluate a software and/or hardware system. Will culminate in the delivery of the design, analysis, and initial working system, to be used as a basis for CSE 4940, formal public presentation, and written documentation. Oral and written progress reports are required.

B. HIST/AMST 3542 New England Environmental History (#12864) [Add EL – GEOC Approved]

*Current Catalog Copy*

HIST 3542. New England Environmental History

Also offered as: AMST 3542

3.00 credits.

Recommended preparation: ENGL 1010 or 1011 or 2011 or 3800.

Grading Basis: Graded

Interdisciplinary history of New England's terrestrial and marine environmental change. Links among land, sea, and human natural resource use and management, including precontact patterns, colonial impacts, agricultural decline, industrial pollution, overfishing, re-forestation, and the rise of eco-tourism.

AMST 3542. New England Environmental History

Also offered as: HIST 3542

3.00 credits.

Recommended preparation: ENGL 1010 or 1011 or 2011 or 3800.

Grading Basis: Graded

Interdisciplinary history of New England's terrestrial and marine environmental change. Links among land, sea, and human natural resource use and management, including precontact patterns, colonial impacts, agricultural decline, industrial pollution, overfishing, re-forestation, and the rise of eco-tourism.

*Revised Catalog Copy*

HIST 3542E. New England Environmental History

Also offered as: AMST 3542E

3.00 credits.

Recommended preparation: ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

Interdisciplinary history of New England's terrestrial and marine environmental change. Links among land, sea, and human natural resource use and management, including precontact patterns, colonial impacts, agricultural decline, industrial pollution, overfishing, re-forestation, and the rise of eco-tourism.

AMST 3542E. New England Environmental History

Also offered as: HIST 3542E

3.00 credits.

Recommended preparation: ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

Interdisciplinary history of New England's terrestrial and marine environmental change. Links among land, sea, and human natural resource use and management, including precontact patterns, colonial impacts, agricultural decline, industrial pollution, overfishing, re-forestation, and the rise of eco-tourism.

- C. LAND 3230W Environmental Planning and Landscape Design (#9381) [Revise title and description; add EL – Approved by GEOC]

*Current Catalog Copy*

LAND 3230W. Environmental Planning and Landscape Design

3.00 credits. Two class periods and one discussion period.

Prerequisite: ENGL 1010 or 1011 or 2011; open only with consent of instructor. Schwab

Grading Basis: Graded

Theories, concepts and methods for sustainable design of the land to balance the needs for conservation and development. Topics include land use planning, ecological design, and cultural and natural landscape assessment at a variety of scales and settings.

*Revised Catalog Copy*

LAND 3230WE. Sustainable Environmental Planning and Landscape Design

3.00 credits.

Prerequisite: ENGL 1010 or 1011 or 2011; open only with consent of instructor.

Grading Basis: Graded

Theories, concepts, and methods for sustainable planning and design of the land to balance and integrate the needs for conservation and development. Literature and case-study based, writing intensive exploration across critical contemporary themes such as climate change, urbanization, health and wellness, and globalization.

- D. MARN 3000 Hydrosphere and Global Climate (#11700) [Revise title, description, and prereqs; add CA3 and EL – Approved by GEOC]

*Current Catalog Copy*

MARN 3000. The Hydrosphere and Global Climate

3.00 Credits. Lund.

Grading Basis: Graded

Interactions of the physical and chemical components of the global water and energy cycles and how all apply to climate. The science behind climate change predictions reviewed and applied to case studies.

*Revised Catalog Copy*

MARN 3000E. The Oceans and Global Climate

3.00 credits.

Prerequisites: CHEM 1127Q; PHYS 1201Q or 1401Q or 1501Q or 1601Q.

Recommended Preparation: MARN 1002 and GSCI 1051.

Grading Basis: Graded

Understanding human impacts on the global climate system; the basics of domestic and international climate policy; and strategies for communicating climate-change science to the broader public, with special emphasis on the oceans. Topics include the Earth's energy budget and carbon cycle; the properties of greenhouse gases; historical and future changes in Earth's climate; impacts of global change on the oceans; and the implications of climate change for human behavior and energy usage. CA 3.

- E. PHIL 3216/W Environmental Ethics (#12805) [Revise description and restrictions; add EL – Approved by GEOC]

*Current Catalog Copy*

PHIL 3216. Environmental Ethics

3.00 credits.

Prerequisite: At least one of PHIL 1101, PHIL 1102, PHIL 1103, PHIL 1104, PHIL 1105, PHIL 1106, PHIL 1107; open to juniors or higher.

Grading Basis: Graded

Inquiry into obligations to, or concerning, the environment, particularly the moral standing of animals, species, ecosystems, and natural objects.

PHIL 3216W. Environmental Ethics

3.00 credits.

Prerequisite: At least one of PHIL 1101, PHIL 1102, PHIL 1103, PHIL 1104, PHIL 1105, PHIL 1106, PHIL 1107; ENGL 1010 or 1011 or 2011; open to juniors or higher.

Grading Basis: Graded

*Revised Catalog Copy*

PHIL 3216E. Environmental Ethics

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106 or 1107.

Grading Basis: Graded

Ethical questions concerning human interaction with the natural world. Topics may include the moral standing of animals, plants, species, and ecosystems; the value of wilderness and biodiversity; obligations to future generations; environmental racism and justice; ecofeminism and deep ecology; and ethical dimensions of environmental policy.

PHIL 3216WE. Environmental Ethics

3.00 credits.

Prerequisite: One from PHIL 1101, 1102, 1103, 1104, 1105, 1106 or 1107. ENGL 1010 or 1011 or 2011.

Grading Basis: Graded

## **VI. Actions on S/U Graded Courses:**

- A. ENGR 4590 Shop Safety Practicum (#13158) [Changing from Graded to S/U]



*Current Catalog Copy*

ENGR 4590. Shop Safety Practicum

Zero credits

Prerequisites: To enroll in the course students must be engaged in their capstone senior design project or in research.

Grading Basis: Graded

Safety, operating procedures and normal practices of the equipment in the School of Engineering Machine Shop so that students can make and assemble their capstone senior design project and to fabricate equipment to support research.

*Revised Catalog Copy*

ENGR 4582. Shop Safety Practicum

Zero credits

Prerequisites: To enroll in the course students must be engaged in their capstone senior design project or in research.

Grading Basis: Satisfactory/Unsatisfactory

Safety, operating procedures and normal practices of the equipment in the School of Engineering Machine Shop so that students can make and assemble their capstone senior design project and to fabricate equipment to support research.

**VII. Editorial changes to the following hyphenated courses were requested by the Office of the Registrar and approved by the General Education Oversight Committee and/or the Senate Curricula and Courses committee as appropriate:**

## A. CHEM 1127Q General Chemistry

*Current Copy*

CHEM 1127Q. General Chemistry

4.00 credits each semester. Three class periods and one 3-hour laboratory period.

Students who have passed CHEM 1122 will receive only 2 credits for CHEM 1127Q but 4 credits will be used for calculating the GPA. CHEM 1127 is not open for credit to students who have passed CHEM 1124Q or 1137Q or 1147Q; CHEM 1128Q is not open to students who have passed CHEM 1126Q or 1138Q or 1148Q.

Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Properties of some of the more familiar elements and their compounds. Quantitative measurements illustrating the laws of chemical combination in the first semester lab. CA 3-LAB.

*Revised Copy*

CHEM 1127Q. General Chemistry I

4.00 credits. Three class periods and one 3-hour laboratory period.

Not open for credit to students who have passed CHEM 1124Q or 1137Q or 1147Q. Students who have passed CHEM 1122 will receive only 2 credits but 4 credits will be used for calculating the GPA.

Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and

solutions. Quantitative measurements illustrating the laws of chemical combination in the laboratory component. CA 3-LAB.

B. CHEM 1128Q General Chemistry

*Current Copy*

CHEM 1128Q. General Chemistry

4.00 credits each semester. Three class periods and one 3-hour laboratory period. Students who have passed CHEM 1122 will receive only 2 credits for CHEM 1127Q but 4 credits will be used for calculating the GPA. CHEM 1127 is not open for credit to students who have passed CHEM 1124Q or 1137Q or 1147Q; CHEM 1128Q is not open to students who have passed CHEM 1126Q or 1138Q or 1148Q.

Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and qualitative reactions of the common cations and anions in the second semester lab. CA 3-LAB.

*Revised Copy*

CHEM 1128Q. General Chemistry II

4.00 credits. Three class periods and one 3-hour laboratory period.

Prerequisite: CHEM 1127Q, CHEM 1137Q, or CHEM 1147Q. Not open to students who have passed CHEM 1126Q or 1138Q or 1148Q.

Equilibrium, thermodynamics, nuclear chemistry, and kinetics. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and reactions of the common cations and anions in the laboratory component. CA 3-LAB.

C. CHEM 1137Q

*Current Copy*

CHEM 1137Q. Enhanced General Chemistry

4.00 credits each semester. Three class periods and one 3-hour laboratory period.

Prerequisite: One year of high school chemistry. Prerequisite or corequisite: MATH 1125Q or 1131Q; or consent of instructor. Primarily for majors in chemistry and related disciplines. This course can be used as an alternate wherever CHEM 1127Q-1128Q is listed as a prerequisite. Not open for credit to students who have passed CHEM 1124Q-1125Q-1126Q, or CHEM 1127Q-1128Q or CHEM 1147Q-1148Q.

Atoms, molecules, ions, chemical bonding. Gases, liquids, solids, solutions, equilibrium, thermodynamics, nuclear chemistry, kinetics and organic chemistry. May include modern materials, environmental chemistry, metallurgy, and biochemistry. CA 3-LAB.

*Revised Copy*

CHEM 1137Q. Enhanced General Chemistry I

4.00 credits. Three class periods and one 3-hour laboratory period.

Primarily for majors in chemistry and related disciplines. Can be used as an alternate wherever CHEM 1127Q is listed as a prerequisite. Not open for credit to students who have passed CHEM 1124Q or 1127Q or 1147Q. Students who have passed CHEM 1122 will receive only 2 credits but 4 credits will be used for calculating the GPA.

Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and

solutions. Quantitative measurements illustrating the laws of chemical combination in the laboratory component. CA 3-LAB.

D. CHEM 1138Q Enhanced General Chemistry

*Current Copy*

CHEM 1138Q. Enhanced General Chemistry

4.00 credits each semester. Three class periods and one 3-hour laboratory period.

Prerequisite: One year of high school chemistry. Prerequisite or corequisite: MATH 1125Q or 1131Q; or consent of instructor. Primarily for majors in chemistry and related disciplines. This course can be used as an alternate wherever CHEM 1127Q-1128Q is listed as a prerequisite. Not open for credit to students who have passed CHEM 1124Q-1125Q-1126Q, or CHEM 1127Q-1128Q or CHEM 1147Q-1148Q.

Atoms, molecules, ions, chemical bonding. Gases, liquids, solids, solutions, equilibrium, thermodynamics, nuclear chemistry, kinetics, and organic chemistry. May include modern materials, environmental chemistry, metallurgy, and biochemistry. CA 3-LAB.

*Revised Copy*

CHEM 1138Q. Enhanced General Chemistry II

4.00 credits. Three class periods and one 3-hour laboratory period.

Prerequisite: CHEM 1127Q, CHEM 1137Q, or CHEM 1147Q. Not open to students who have passed CHEM 1126Q or 1128Q or 1148Q. Can be used as an alternate wherever 1128Q is listed as a prerequisite.

Equilibrium, thermodynamics, nuclear chemistry and kinetics. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and reactions of the common cations and anions in the laboratory component. CA 3-LAB.

E. CHEM 1147Q Honors General Chemistry

*Current Copy*

CHEM 1147Q. Honors General Chemistry

(Honors Course.) 4.00 credits each semester. Three class periods and one 3-hour laboratory period.

Prerequisite: Strong background in high school chemistry and physics. Prerequisite or corequisite: MATH 1125Q or 1131Q; consent of instructor. Designed primarily for exceptionally well-prepared science and engineering students, although any qualified honors student may take it. This course can be used as an alternate wherever CHEM 1127Q-1128Q is listed as a prerequisite. Not open for credit to students who have passed CHEM 1127Q-1128Q, or CHEM 1124Q-1125Q-1126Q or 1137Q-1138Q.

Atomic and molecular theory and the properties of gases, liquids, solids, and solutions. Topics which may be covered in depth are the nature of the chemical bond, chemical equilibria, thermodynamics, electrochemistry and nuclear chemistry. The laboratory work is primarily quantitative in nature. Considerable personal initiative will be demanded of students in carrying out the laboratory assignments. Designed primarily for exceptionally well-prepared science and engineering students, although any qualified honors students may take it. This course can be used as an alternate wherever CHEM 1127Q-1128Q is listed as a prerequisite. CA 3-LAB.

*Revised Copy*

CHEM 1147Q. Honors General Chemistry I

(Honors Course.) 4.00 credits. Three class periods and one 3-hour laboratory period.

Designed primarily for exceptionally well-prepared science and engineering students, although any qualified honors student may take it. Can be used as an alternate wherever CHEM 1127Q is listed as a prerequisite. Not open for credit to students who have passed CHEM 1124Q or 1127Q or 1137Q. Students who have passed CHEM 1122 will receive only 2 credits but 4 credits will be used for calculating the GPA.

Designed to provide a foundation for more advanced courses in chemistry. Atomic theory, laws and theories concerning the physical and chemical behavior of gases, liquids, solids, and solutions. Quantitative measurements illustrating the laws of chemical combination in the laboratory component. Considerable personal initiative will be demanded of students in carrying out the laboratory assignments. CA 3-LAB.

F. CHEM 1148Q Honors General Chemistry

*Current Copy*

CHEM 1148Q. Honors General Chemistry

(Honors Course.) 4.00 credits each semester. Three class periods and one 3-hour laboratory period.

Prerequisite: Strong background in high school chemistry and physics. Prerequisite or corequisite: MATH 1125Q or 1131Q; consent of instructor. Designed primarily for exceptionally well-prepared science and engineering students, although any qualified honors student may take it. This course can be used as an alternate wherever CHEM 1127Q-1128Q is listed as a prerequisite. Not open for credit to students who have passed CHEM 1127Q-1128Q, or CHEM 1124Q-1125Q-1126Q, or CHEM 1137Q-1138Q.

Atomic and molecular theory and the properties of gases, liquids, solids, and solutions. Topics which may be covered in depth are the nature of the chemical bond, chemical equilibria, thermodynamics, electrochemistry and nuclear chemistry. The laboratory work is primarily quantitative in nature. Considerable personal initiative will be demanded of students in carrying out the laboratory assignments. Designed primarily for exceptionally well-prepared science and engineering students, although any qualified honors students may take it. This course can be used as an alternate wherever CHEM 1127Q-1128Q is listed as a prerequisite. CA 3-LAB.

*Revised Copy*

CHEM 1148Q. Honors General Chemistry II

(Honors Course.) 4.00 credits. Three class periods and one 3-hour laboratory period.

Prerequisite: CHEM 1147Q; or consent of instructor. Designed primarily for exceptionally well-prepared science and engineering students, although any qualified honors student may take it. Not open to students who have passed CHEM 1126Q or 1128Q or 1138Q. Can be used as an alternate wherever 1128Q is listed as a prerequisite.

Equilibrium, thermodynamics, nuclear chemistry and kinetics. Properties of some of the more familiar elements and their compounds. Equilibrium in solutions and reactions of the common cations and anions in the laboratory component. Considerable personal initiative will be demanded of students in carrying out the laboratory assignments. CA 3-LAB.

G. MATH 2010Q Fundamentals of Algebra and Geometry

*Current Copy*

MATH 2010Q. Fundamentals of Algebra and Geometry

3.00 credits each semester.

Prerequisite: PSYC 1100 and three credits of Mathematics; open only to students enrolled in the Elementary Education program in the Neag School of Education or by consent of instructor. May not be counted in any of the major groups described in the Mathematics Departmental listing. Development of the number system with applications to elementary number theory and analytic geometry.

*Revised Copy*

MATH 2010Q. Fundamentals of Algebra and Geometry

3.00 credits.

Prerequisites: PSYC 1100; three credits of Mathematics; open only to students enrolled in the Elementary Education program in the Neag School of Education, or by consent of instructor. Not open to students who have passed MATH 2011Q.

Development of the number system with applications to elementary number theory and analytic geometry. May not be counted in any of the major groups described in the Mathematics Departmental listing.

H. MATH 2011Q Fundamentals of Algebra and Geometry

*Current Copy*

MATH 2011Q. Fundamentals of Algebra and Geometry

3.00 credits each semester.

Prerequisite: PSYC 1100 and three credits of Mathematics; open only to students enrolled in the Elementary Education program in the Neag School of Education or by consent of instructor. May not be counted in any of the major groups described in the Mathematics Departmental listing.

Development of the number system with applications to elementary number theory and analytic geometry.

*Revised Copy*

MATH 2011Q. Fundamentals of Algebra and Geometry

3.00 credits.

Prerequisite: MATH 2010Q. May not be counted in any of the major groups described in the Mathematics Departmental listing.

A continuation of Math 2010Q, furthering the treatment of elementary number theory and analytic geometry.

I. MATH 2141Q Advanced Calculus I

*Current Copy*

MATH 2141Q. Advanced Calculus I

Both semesters. 4.00 credits each semester. May be taken for honors credit but open to any qualified student.

Prerequisite: A year of calculus (that may include high school) and instructor consent. MATH 2141Q may be used in place of MATH 1131Q or 1151Q to fulfill any requirement satisfied by MATH 1131Q or 1151Q. MATH 2142Q may be used in place of MATH 1132Q or 1152Q to fulfill any requirement satisfied by MATH 1132Q or 1152Q to fulfill any requirement satisfied by MATH 1132Q or 1152Q or 2710. May be used in place of MATH 1131 or 1151 to fulfill any requirement satisfied by MATH 1131 or 1151.

A rigorous treatment of the mathematics underlying the main results of one-variable calculus. Intended for students with strong interest and ability in mathematics who are already familiar with the computational aspects of basic calculus.

*Revised Copy*

MATH 2141Q. Advanced Calculus I

4.00 credits. May be taken for honors credit, but open to any qualified student.

Prerequisites: A year of calculus (that may include high school) and instructor consent. May be used in place of MATH 1131Q or 1151Q to fulfill any requirement satisfied by MATH 1131Q or 1151Q. May not be taken for credit after passing MATH 2142Q.

A rigorous treatment of the mathematics underlying the main results of one-variable calculus. Intended for students with strong interest and ability in mathematics who are already familiar with the computational aspects of basic calculus.

J. MATH 2142Q Advanced Calculus II

*Current Copy*

MATH 2142Q. Advanced Calculus II

Both semesters. 4.00 credits each semester. May be taken for honors credit but open to any qualified student.

Prerequisite: A year of calculus (that may include high school) and instructor consent. MATH 2141Q may be used in place of MATH 1131Q or 1151Q to fulfill any requirement satisfied by MATH 1131Q or 1151Q. MATH 2142Q may be used in place of MATH 1132Q or 1152Q to fulfill any requirement satisfied by MATH 1132Q or 1152Q or 2710.

A rigorous treatment of the mathematics underlying the main results of one-variable calculus. Intended for students with strong interest and ability in mathematics who are already familiar with the computational aspects of basic calculus.

*Approved Copy*

MATH 2142Q. Advanced Calculus II

4.00 credits. May be taken for honors credit, but open to any qualified student.

Prerequisite: MATH 2141Q. May not be taken for credit after passing MATH 2110Q (or 2130Q), 2143Q, 2210Q or 2410Q (or 2420Q). May be used in place of MATH 1132Q, 1152Q or 2710 to fulfill any requirement satisfied by MATH 1132Q, 1152Q or 2710.

A continuation of the rigorous treatment of the mathematics underlying the main results of one variable calculus. Basic properties of vectors and vector valued functions.

K. MATH 2143Q Advanced Calculus III

*Current Copy*

MATH 2143Q. Advanced Calculus III

Both semesters. 4.00 credits each semester. May be taken for honors credit but open to any qualified student. Prerequisite: MATH 2142Q or consent of instructor. MATH 2143Q may be used in place of MATH 2110Q to fulfill any requirement satisfied by MATH 2110Q. MATH 2144Q may be used in place of MATH 2410Q, MATH 2420Q, or MATH 2210Q to fulfill any requirement satisfied by MATH 2410Q, MATH 2420Q, or MATH 2210Q.

A rigorous treatment of more advanced topics, including vector spaces and their application to multivariable calculus and first-order, second-order and systems of differential equations.

*Revised Copy*

MATH 2143Q. Advanced Calculus III

4.00 credits. May be taken for honors credit, but open to any qualified student. Prerequisite: MATH 2142Q. May not be taken for credit after passing MATH 2110Q (or 2130Q), 2144Q,

2210Q or 2410Q (or 2420Q). May be used in place of MATH 2110Q to fulfill any requirement satisfied by MATH 2110Q.

A rigorous treatment of advanced topics in calculus including vector spaces and their applications in multivariable calculus.

L. MATH 2144Q Advanced Calculus IV

*Current Copy*

MATH 2144Q. Advanced Calculus IV

Both semesters. 4.00 credits each semester. May be taken for honors credit but open to any qualified student.

Prerequisite: MATH 2142Q or consent of instructor. MATH 2143Q may be used in place of MATH 2110Q to fulfill any requirement satisfied by MATH 2110Q. MATH 2144Q may be used in place of MATH 2410Q, MATH 2420Q, or MATH 2210Q to fulfill any requirement satisfied by MATH 2410Q, MATH 2420Q, or MATH 2210Q. MATH 2144 may be used in place of MATH 2410, MATH 2420 or MATH 2210 to fulfill any requirement satisfied by MATH 2410, MATH 2420 or MATH 2210.

A rigorous treatment of more advanced topics, including vector spaces and their application to multivariable calculus and first-order, second-order and systems of differential equations.

*Revised Copy*

MATH 2144Q. Advanced Calculus IV

4.00 credits. May be taken for honors credit, but open to any qualified student.

Prerequisite: MATH 2143Q. May not be taken for credit after passing MATH 2110Q (or 2130Q), 2210Q or 2410Q (or 2420Q). May be used in place of MATH 2210Q or 2410Q to fulfill any requirement satisfied by MATH 2210Q or 2410Q.

The continuation of the rigorous treatment of advanced topics in multivariable calculus, vector spaces and systems of differential equations.

M. SPAN 1001 Elementary Spanish I

*Current Copy*

SPAN 1001. Elementary Spanish I

4.00 credits.

Prerequisites: Not open to students who have had three or more years of high school Spanish, SPAN 1002, 1003 or 1004, or any 2000 level or above course taught in Spanish.

Development of ability to communicate in Spanish, orally and in writing, to satisfy basic survival needs within a cultural setting.

*Revised Copy*

SPAN 1001. Elementary Spanish I

4.00 credits.

Prerequisites: May not be taken out of sequence after passing SPAN 1002, 1003 or 1004. May not be taken for credit after passing any 2000-level or above course taught in Spanish, or three or more years of high school Spanish.

Elementary level communication skills in Spanish focusing on expressing likes, dislikes, personal information. Introduction to the cultures of the Spanish-speaking world. Course for students who have never studied Spanish.

## N. SPAN 1002 Elementary Spanish II

*Current Copy*

SPAN 1002. Elementary Spanish II

4.00 credits.

Prerequisites: SPAN 1001. Not open to students who have had three or more years of high school Spanish, SPAN 1003 or 1004, or any 2000 level or above course taught in Spanish.

Development of ability to communicate in Spanish, orally and in writing, to satisfy basic survival needs within a cultural setting.

*Revised Copy*

SPAN 1002. Elementary Spanish II

4.00 credits.

Prerequisite: SPAN 1001. May not be taken out of sequence after passing SPAN 1003 or 1004. May not be taken for credit after passing any 2000-level or above course taught in Spanish, or three or more years of high school Spanish.

Advanced beginner level Spanish course with further development of communication skills in Spanish. Focus on expressing events in the past and the future. Further exploration of cultural diversity in the Spanish-speaking world.

## O. SPAN 1003 Intermediate Spanish I

*Current Copy*

SPAN 1003. Intermediate Spanish I

4.00 credits

Prerequisites: SPAN 1002 or two years of high school Spanish. Cannot be taken for credit after SPAN 1004 or any 2000 level or above course taught in Spanish.

Further development of understanding, speaking, reading, and writing skills within a cultural setting. Readings to enhance cultural awareness of the Spanish-speaking world.

*Revised Copy*

SPAN 1003. Intermediate Spanish I

4.00 credits.

Prerequisites: SPAN 1002 or two years of high school Spanish. May not be taken out of sequence after passing SPAN 1004. May not be taken for credit after passing any 2000-level or above course taught in Spanish, or three or more years of high school Spanish.

Basic intermediate level Spanish course with further development of uncomplicated communicative tasks. Focus on expressing subjectivity, opinions and arguments. Detailed analysis of Spanish speaking countries and societies.

## P. SPAN 1004 Intermediate Spanish II

*Current Copy*

SPAN 1004. Intermediate Spanish II

4.00 credits.

Prerequisites: SPAN 1003. Cannot be taken for credit after any 2000 level or above courses taught in Spanish.

Further development of understanding, speaking, reading, and writing skills within a cultural setting. Readings to enhance cultural awareness of the Spanish-speaking world.



*Revised Copy*

SPAN 1004. Intermediate Spanish II

4.00 credits.

Prerequisites: SPAN 1003. May not be taken for credit after passing any 2000-level or above course taught in Spanish.

Intensive practice in communicative skills in all modes of communication. Course provides a cultural context in order to ease communicating in Spanish. Topics include analysis of short films and texts. Students elaborate complex arguments and connect them to their own experience at an intermediate high level.

Respectfully Submitted by the 19-20 Senate Curricula and Courses Committee: Pam Bedore (Chair), Mark Brand, Tutita Casa, John Chandy, Marc Hatfield, Kate Fuller, David Knecht, Matt McKenzie, David Ouimette, Alejandro Rodriguez (Student Rep), Sharyn Rusch, Lauren Schlesselman (Ex-Officio), Gina Stuart, Jennifer Terni, Manuela Wagner, Michael Zhu (Student Rep)

From the 11/6/19 and 11/20/19 meetings