



**Bucknell**  
UNIVERSITY

2011 Summer Catalog  
*Course information*

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# Schedule of Courses

## BUCKNELL UNIVERSITY SUMMER SESSION

June 13 – July 22, 2011

Unless otherwise indicated, all courses meet 1½ hours Monday through Friday and carry one-course credit (= 4 credit hours). Students registering for courses designated P (permission courses), including independent study courses listed in this catalog, and any other independent study, nontraditional, thesis/essay, research, or internship courses developed by the student, must have the approval of the instructor who will supervise and grade the coursework in order to enroll. Students who have completed the first semester of the junior year may receive Capstone credit. Only graduate students may register for 600-level courses. Many departments will arrange independent study or special project courses whether or not such courses are listed. Students must have the permission of the instructor to enroll. Class hours for all independent study courses will be arranged by the instructor.

This publication is subject to change. For the most updated listings please visit the online schedule information at [www.bucknell.edu/registrar/banner/courseinfo.asp](http://www.bucknell.edu/registrar/banner/courseinfo.asp)

Credit is given for a course only if the student is officially registered  
**All courses will meet the first day of Summer Session (June 13) as scheduled.**

Room designations for courses are not available at press time. Please consult the summer session web page for room assignments prior to the beginning of the summer session.

M – Monday    T – Tuesday    W – Wednesday  
 R – Thursday    F – Friday

### COLLEGE OF ARTS AND SCIENCES

Department/Course/Instructor/Schedule/Location

#### ANTHROPOLOGY

**ANTH 109 Cultural Anthropology** – Ritchie, TWR 10a.m. -12:30 p.m. Nature and scope of the field: method and theory, institutions of human beings in cross-cultural perspective, case studies. [CRN 90167]

#### ART AND ART HISTORY

**ART 131 Elementary Drawing** – Mahosky, TR 1:30 -4:22 p.m. The tradition of drawing, its practice and theory in various media. [CRN 90011]

#### BIOLOGY

**BIOL 245P Tropical Marine Biology** – Chernin, and Capaldi-Evans (off-campus: Virgin Islands, May 30 – June 16). A field course in coral reef ecology offered in the U.S. and British Virgin Islands. Emphasis on observation and identification of marine life and on data collecting. [CRN 90120]

**BIOL 399P Undergraduate Research** (course credit: 0.5-2.0) – Staff. [CRN 90014]

**BIOL 660P Graduate Research** (course credit: 0.5-2.0) – Staff. [CRN 90015]

**BIOL 680P Thesis** (course credit: 0.5-1.0) – Staff. [CRN 90016]

#### CHEMISTRY

**CHEM 211 Organic Chemistry I** – Stockland, MTWRF, 10-11:30 a.m. First-year, first-semester course for students majoring in chemistry, biochemistry, and biology. Bonding and structure in organic compounds, resonance, organic acid/base reactions, basic nomenclature, conformational analysis, stereochemistry, properties and reactions of functional groups. Prerequisite: high school chemistry or equivalent. [CRN90116]

Student must also register for CHEM 211L - Stockland, TR, 1-5 p.m. [CRN 90117] and CHEM 211R - Stockland, W, 12-1 p.m. [CRN 90118]

**CHEM 375P Undergraduate Research** (course credit: 0.5-1.0) – Staff. [CRN90017]

**CHEM 645P Advanced Physical Chemistry for High School Teachers** (course credit: 0.5) – Williams, TBA. Special topics in chemistry. [CRN 90174]

**CHEM 675P Graduate Research** (course credit: 0.5-2.0) – Staff. [CRN 90072]

**CHEM 677P Research Methods** (course credit: .5) – Williams, TBA. An introduction to chemistry research, with emphases on formal record keeping and data collection, advanced lab techniques, advanced instrumentation and analytical techniques, accessing the chemical literature and special topics pertinent to each student's project. (Note: This course is to be taken with CHEM 645) [CRN 90019]

**CHEM 699P Thesis** (course credit: 0.5-1.0) – Staff. [CRN 90020]

#### ECONOMICS

**ECON 103 Economic Principles and Problems** – Banks, TWRF 9:30-11a.m. An introductory economics course which introduces students to the basic macro- and micro-economic concepts used to analyze and explain social phenomena. On completing this course, students will be able to understand how economic policies affect the various sectors of the U.S. economy. [CRN 90164]

**ECON 266P Political Economy of the Caribbean** – Griffith (off-campus, Barbados). Formal lectures will be supplemented by class meetings with local experts on areas of government, law, religion, finance and economic policy. [CRN 90023]

**ECON 301/601P Independent Study** – Griffith (off-campus, Barbados). Project to be selected on an aspect of economic and social change in Barbados and the English speaking Caribbean. [CRN 90024/90025]

#### EDUCATION

**EDUC 317/617P Problems in Education** – M. Hoffman, TBA. Research on a problem not involved in a student thesis. Upperclass and graduate students. Prerequisite: permission of the instructor. [CRN 90026/90027]

**EDUC 662 Research Methods I** – *Wert, TR 8:30-11:52 a.m.* This course emphasizes the interpretation of experimental research and the development of skills in analyzing and interpreting data. Experimental research in education and psychology is critiqued in terms of theory, past research, hypothesis generation and research design. Data analysis involves the use of statistical packages such as SPSS, which are broadly applicable to the social and psychological sciences. [CRN 90165]

**EDUC 625 Career Development** – *MacGill, TR 1-4:22 p.m.* An examination of career decision-making and career choices within the context of cognitive, social, emotional and physical development, with emphasis on both theory and practice. [CRN 90032]

**EDUC 631P Internship: K-12 Principal** – *M. Hoffman, TBA.* [CRN 90033]

**EDUC 633P Internship: Superintendent** – *M. Hoffman, TBA.* [CRN 90035]

**EDUC 676P Graduate Research** (course credit 0.5-1.0) – *Staff.* [CRN 90037]

**EDUC 680P Thesis** (course credit 1.0) – *Staff.* [CRN 90038]

**EDUC 681P Master's Treatise** (course credit 1.0) – *Staff.* [CRN 90039]

**EDUC 691P Case Study** – *Staff, TBA.* In-depth scientific study requiring identification of the problem, collection of data, design and implementation of an appropriate, research-based intervention and evaluation of results. [CRN 90040]

**EDUC 697 College Student Personnel Internship** – *Staff*  
- Supervised practice in student affairs, together with group reflection. May be repeated for up to two credits. [CRN 90152]

Students wishing to enroll in EDUC 631 or EDUC 633 should direct their inquiries to Professor Lynn Hoffman, Chair, at [lhoffman@bucknell.edu](mailto:lhoffman@bucknell.edu). Please check the education department offerings online via the Registrar's web page for more information about summer offerings.

## ENGLISH

**ENGL 101 Exploring the Humanities** – *Bakst, TR 8:30-11:52 a.m.* What can the humanities tell us about ourselves? In this course, we will piece together an image of our humanity by looking at it from different perspectives: from the point of view of the philosopher, the poet, the artist, and the film maker. We will see what they have had to say about Good and Evil, bigotry, our artistic abilities, our social ways, our free will, and more. We will read key excerpts from throughout history and different cultures, and we will contribute our own ideas through class discussion and writing. Some of the material will include excerpts from the Bible, Charles Darwin, Alexander Pope, Emily Dickinson, Sartre, Li Po, the Koran, and more. Film excerpts will include *Life Is Beautiful*, *Blade Runner*, and *The Third Man*, among others. The class will focus on students' skills: both in reading texts and responding to them through writing. The student will participate in class discussions and meet with the instructor for individual tutoring. [CRN 90041]

**ENGL 106 Literature and Creative Writing** – *Buck, TR 1 -4:22 p.m.* Half of the term will be spent reading and writing fiction, and the other half will focus on reading and writing poems. The emphasis will be on exploring how these forms work and on using them to express parts of your own experience, thoughts, feelings and imagination. The course does not count toward the creative writing concentration or minor. [CRN 90042]

**ENGL 290. Fantasies of Earth** – *Siewers, MR 1-4:22 p.m.* Fantasy works by JRR Tolkien and Philip Pullman, as well as various films such as anime, explore varied modern responses to and anxieties about the relation of human beings to their physical environment. In fantasy novels by Tolkien, magical realism by Native American writer Linda Hogan, Western American writer Edward Abbey's fictional approach to ecological activism, Pullman's work, as well as short selections from varied eco-fantasies and eco-thrillers of the late twentieth century, including Japanese anime, this course will explore the relation between fantasy narratives, ecology and environmental activism. It will do so through approaches from deep ecology and eco-phenomenology represented by Erazim Kohak's classic reflection on nature *The Embers and the Stars*. Coursework will include two research papers, regular blogging on readings, and quizzes, as well as regular discussion and presentations. [CRN 90124]

**ENGL 319/619P Individual Projects** – *Staff.* [CRN 90044/90045]

**ENGL 680P Thesis** – *Staff.* [CRN 90046]

## FOREIGN LANGUAGE PROGRAMS

**SIGN 101 and 102. Elementary American Sign Language I and II** – half credit courses, each three weeks – *Slike, TR 6-7:52 p.m.* An introduction to American Sign Language. Training and practice in signing together with approaches to communicating with deaf people. SIGN 101 or equivalent is prerequisite for 102. [CRN 90050/90051]

## MATHEMATICS

**MATH 201. Calculus I** – *Ryan, MTWRF, 1-2:30 p.m.* An introduction to the calculus of algebraic, trigonometric, and transcendental functions. Interpretation, significance, and calculations of a derivative. Applications to geometry, biology, physics, economics, and other subjects. Introduction to the definite integral, including the Fundamental Theorem of Calculus. Not open to students who have taken MATH 192 or MATH 205. [CRN 90110]

**MATH 202. Calculus II** – *Adams, MTWRF, 1-2:30 p.m.* Methods of integration including substitution, integration by parts, numerical approximations, and improper integrals. Series, including Taylor series. Complex numbers, polar coordinates, differential equations and applications. Prerequisite: MATH 201 or 205. Not open to students who have taken MATH 206. [CRN 90078]

**MATH 211. Calculus III** – *Piggott, MTWRF, 1-2:30 p.m.* Calculus of vector-valued and several variable functions. Multiple, line, and surface integrals; applications and extrema. Green's, Stoke's, Divergence Theorems. Prerequisite: MATH 202 or MATH 206. [CRN 90169]

**POLITICAL SCIENCE**

**POLS 140. American Politics** – *Stokes-Brown, TR, 8:30-11:52 a.m.*  
A critical examination of the principles, structures, and processes that shape American politics. An emphasis on political behavior and institutions with application to contemporary political issues. [CRN 90105]

**PSYCHOLOGY**

**PSYC 209 Social Psychology** – *Wade, MTWRF 1-2:22p.m.*  
Theories of social influence and social interaction, their empirical foundations and implications for the individual and society. Prerequisite: PSYC 100 or permission of the instructor. [CRN 90170]

**PSYC 234 Introduction to Sport Psychology** – *Ptacek, MTWRF 1-2:30p.m.* Considers the individual difference factors influencing athletic performance (e.g., cognitive, behavioral, and emotion). Also considers psychological processes operating in group (e.g., cohesion, leadership, aggression, and audience effects). [CRN 90173]

**PSYC 329P Undergraduate Research** – *Staff.* [CRN 90061]

**PSYC 685P Graduate Research** – *Staff.* [CRN 90063]

**SOCIOLOGY**

**SOCI 140 - American Culture and Society** – *Riley MTW 1-3:22p.m.* The individual's relation to society in the U.S. American conceptions of the course of life and ultimate meaning of popular and high culture. [CRN 90168]

**SPANISH**

**SPAN 101 – Elementary Spanish** – *Guerreo-Kees, MTWRF 7-8:30 p.m.* Elementary Spanish is designed for students who are taking Spanish for the first time. Students who have had one year of high school Spanish may also enroll in the course. The aim of the course is for you to achieve a basic level of proficiency in the areas of listening, speaking, reading and writing through the study of Spanish grammar, with special attention to the verb system and the structured practice of Spanish in “real-life” situations. [CRN 90069]

**THEATRE and DANCE**

**THEA 110 Acting I** (three-week course June 13 – July 1) – *Grant, MTWRF 6-8:52 p.m.* Introduction to acting: a critical approach to drama and personal expression, including physical, vocal and interpretive aspects of performance. [CRN 90070]

**UNIVERSITY COURSES**

**UNIV 258 Star Power: The Aesthetics of Classic Hollywood Films (1920s-1950s)** – *Yastremski, MW 7-10:30 p.m.* The course will examine the changing role of the actor in Hollywood cinema during its Golden Age of the 1920s-1950s [CRN 90071]

**COLLEGE OF ENGINEERING****ENGINEERING SCIENCES**

**ENGR 220 Mechanics I** – *S. Baish, MTWR 8:30 -10:22 a.m., F 9:30-10:30 a.m.* Particles and rigid bodies under the action of forces. Equilibrium of two and three-dimensional force systems. Kinematic and kinetic analysis of particles. Prerequisite: MATH 201 or equivalent. [CRN 90074]

**ENGR 290P Engineering in a Global and Societal Context** – *Jablonski, McGinnis, Vogel (off campus)* This is a short-term study abroad program for engineering students interested in developing their professional responsibility and sensitivity to a broad range of topics impacting engineering including ethical, environmental, economic, regulatory and global issues. [CRN 90077]

**CHEMICAL ENGINEERING**

**CHEG 440/640P Chemical Engineering Research** (course credit: 0.5-2.0) – *Staff.* [CRN 90003/90004]

**CHEG 680P Thesis** – *Staff.* [CRN 90005]

**CIVIL AND ENVIRONMENTAL ENGINEERING**

**CENG 480P Special Topics in Civil Engineering** – *Staff.* [CRN 90006]

**CENG 699P Master's Thesis** – *Staff.* [CRN 90007]

**MECHANICAL ENGINEERING**

**MECH 485/685P Advanced Engineering Problems** – *Staff.* [CRN 90008/90009]

**MECH 699P Graduate Thesis** – *Staff.* [CRN 90010]

## Directory and General Information

Telephone numbers listed are in the 570 area code.

Dean of Summer Session, Robert Midkiff Jr., 217 Marts Hall/577-3655

Admissions/Undergraduate, Kurt Thiede, Freas Hall/577-1101

Admissions/Graduate, 228 Marts Hall/577-1304

Bookstore, Vicki Benion, Elaine Langone Center/577-1128

Campus Activities and Programs, Kari Conrad, 306 Elaine Langone Center/  
577-1217

Campus Security, Public Safety Office/577-3333

Career Development Center, Pamela Keiser, 101 Botany Bldg./577-1238

Counseling Service, Linda Locher, Lowry House/577-1604

Dining Service, Elaine Langone Center/577-1240

Duplicating Services, 3 Marts Hall/577-3757

International Student Services, Paula Myers, 128 Vedder Hall/577-1095

Library Services, Bertrand Library/577-1557

Lost and Found, Secretary, Main Desk, Elaine Langone Center/577-3588

Media Services, Bertrand Library/577-1109

Multicultural Student Services, 129 Vedder Hall/577-1095

Registrar, 102 Marts Hall/577-1201

Reservation, Information and Conference Services, Judy Mickanis, 265 Elaine Langone Center/577-3095

Residence Halls, Daniel Remley, 219 Elaine Langone Center/  
577-1195

Scheduling (Academic), Sandy Raymond, 2 Marts Hall/577-1116

Scheduling (Events), Pat Ringkamp, 265 Elaine Langone Center/577-3167

Student Accounts, 108 Marts Hall/577-3733

Transcripts, Registrar's Office, 102 Marts Hall/577-1201

Writing Center, 100A Roberts Hall/577-3141

**Nothing in this catalog may be considered as setting forth the terms of a contract between a student or prospective student and Bucknell University.**

The matters covered in this catalog, including courses, curricula and procedures described and the teaching personnel listed herein, are subject to change without prior notice at any time by action of Bucknell University.

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