



**Bucknell**  
UNIVERSITY

2010 Summer Catalog  
*Course information*

## *Table of Contents*

Schedule of Courses .....	3
College of Arts and Sciences .....	3
College of Engineering .....	5
Directory and General Information .....	6
Notice of Nondiscrimination .....	6

# Schedule of Courses

BUCKNELL UNIVERSITY SUMMER SESSION  
June 14 – July 23, 2010

Unless otherwise indicated, all courses meet 11/2 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 8) 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

### 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, (off-campus: Virgin Islands, May 31 – June 17). 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 90013]

**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, 1-2:30 p.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. [CRN ]

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

**CHEM 630P Advanced Analytical Chemistry for High School Teachers** (course credit: 0.5-1.0) – Swan, TBA. Special topics in chemistry. [CRN 90018]

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

**CHEM 677P Research Methods** (course credit: .5) – Swan, 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 620) [CRN 90019]

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

### ECONOMICS

**ECON 103 Economic Principles and Problems** – McCutcheon, MTWR 10-11:52 a.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 90021]

**ECON 256 Intermediate Microeconomics** – Kazi, TWR 1-3:30 p.m. Intermediate economic theory of the consumer, the firm market structures and resource allocation. Prerequisite: ECON 103 [CRN 90111]

**ECON 266P Political Economy of the Caribbean** – Griffith/Moohr (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/Moohr (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** – Staff, TBA. Research on a problem not involved in a student thesis. Upperclass and graduate students. Prerequisite: permission of the instructor. [CRN 90026/90027]

**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 626. Topics in Instructional Leadership** – *Reitz, 6/14-6/25, TR 4-7:30 p.m. and 6/28-7/23, TR 1-4:22 p.m.* This course focuses on integrating technology into the curriculum and on the use of technology in planning, the analysis of data, and scheduling.

**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 0.5-1.0) – *Staff.* [CRN 90038]

**EDUC 681P Master's Treatise** (course credit 0.5-1.0) – *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]

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 202. Introduction to Creative Writing: Fiction** – *Scapellato, MTWRF 9:30-11 a.m.* Principles of writing fiction, with constant practice. Designed for students planning to concentrate or minor in creative writing. Preference to juniors, sophomore, and first-year students. Prerequisite: seniors by permission of the instructor. [CRN 90106]

**ENGL 290. Re-Imagining Earth: 20th-century Fantasy and the Inklings** – *Siewers, MR 6:30-9:52 p.m.* In this course we'll study and reflect together on responses to modern life in the fantasy medievalism of J.R.R. Tolkien and C.S. Lewis (part of the Oxford literary circle known as the Inklings), in addition to selections from works by Madeline L'Engle and Phillip Pullman, later 20th-century writers responding partly to those earlier works. We'll seek to place those writers in a context of reaction to 20th-century war and environmental degradation, and how fantasy worlds form a focus for environmental literary studies today. The course will examine imaginary worlds and their relation to "actual" historical contexts, as well as how these particular writers "modernized" medieval literary themes. The course will include a weekly reading journal, midterm analysis paper, and final research analysis project. [CRN 90043]

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

**ENGL 680P Thesis** – *Staff.* [CRN 90038]

### 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 90041/90042]

**GEOG 101. Introduction to Human Geography** – *Lelea, TWRF, 10a.m.-noon* Investigate the world from a spatial perspective to understand the complexity of places and the dynamic relationship between peoples and the world they inhabit. [CRN 90107]

**GEOG 220. Cultural Geography** – *Lelea, TWRF, 3-5p.m.* Role of culture in shaping places. How cultures are geographically expressed, and how geography is a basic element in the constitution of cultures. [CRN 90108]

### HISTORY

**HIST 211. Frontiers and Borderlands** – *Di Stefano, MTWRF, 2:30-4 p.m.* This course examines the development of the American West to 1900. [CRN 90114]

### MATHEMATICS

**MATH 201. Calculus I** – *Adams, 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** – *Ryan, 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]

**PHILOSOPHY**

**PHIL 103 Logic** – *Fleming, MTWRF 9:30-10:52 a.m.* An introduction to informal and formal ways of reasoning, the structures and general forms of argument as well as the standards and criteria needed to evaluate arguments, and the historical development of logical reasoning, will be studied. [CRN 90054]

**PHIL 319P Individual Studies in Philosophy** – *Staff.* [CRN 90057]

**POLITICAL SCIENCE**

**POLS 140. American Politics** – *Stokes-Brown, MTWR, 9:30-11 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 100 Introduction to Psychology** – *Ptacek, MTWRF 9-10:30 a.m.* A survey of concepts, principles and theories of an empirical science of behavior. [CRN 90056]

**PSYC 234 Introduction to Sport Psychology** – *Ptacek, MTWRF 1-2:30 p.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 90123]

**PSYC 215. Psychological Statistics** – *Ptacek,* An introduction to basic statistical analyses in psychology. Prerequisite: PSYC 100, NEUR 100, or ANBE 266 or permission of the instructor. [CRN ]

**PSYC 234. Introduction to Sport Psychology** – *Ptacek* 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 ]

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

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

**RELIGION**

**RELI 105 Introduction to the Bible** – *Ulmer, MTWRF, 10:30-11:52 a.m.* This course provides the students with an historical approach to the vast realm of Biblical texts and explores the canonization of the Hebrew Bible and the New Testament. [CRN 90064]

**SPANISH**

**SPAN 101 – Elementary Spanish** (June 14 – July 2) – *Staff, MTWRF 6-9 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]

**SPAN 102 Elementary Spanish II** (July 5 – July 23) – *Staff, MTWRF 6-9 p.m.*

**THEATRE and DANCE**

**THEA 110 Acting I** (three-week course July 5 – July 23) – *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]

**DANC 215. Introduction to Movement/Improvisation** (three week course June 14-July 2) – *Gerdes, MTWRF 1-4 p.m.* This course is designed to introduce students from all movement backgrounds to dance as a physical art form. Through corporeal investigations, readings, and video-viewings, students will gain a fundamental understanding of the aesthetic and cultural aspects of dance. Grounded in dance studio-work, the session culminates in a group choreography project. [CRN 90115]

**UNIVERSITY COURSES**

**UNIV 255. Film Experience: Intro to Cinema** – *Yastremski, TR, 7-10:30p.m.* Tracing the film history from 1896 to the present, the course approaches cinema as art and discusses major elements of film and its genres. [CRN 90109]

**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** – *Perrone/Raymond/Vigeant (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 00000]

**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.

*Bucknell University admits students of any race, national or ethnic origin, religion, or gender to all the rights, privileges, programs and activities generally accorded or made available to students at Bucknell, and does not discriminate on the basis of race, color, gender, sexual orientation, age, religion, national or ethnic origin, marital status, veteran status, or disability in the administration of its educational policies, admissions policies, scholarship and loan programs and athletic and other university-administered programs. In employment of both students and staff, Bucknell is an Affirmative Action and Equal Opportunity Employer.*