



BSC
EXPLORATION
TERM 2019

Photo Credits for the 2019 Bulletin

Front Cover: Katie Campbell, “2018 ASL Class,” Beginning Sign Language

More student photos /photo credits are printed on the inside back cover.

exploration

TERM 2019

BSC

Birmingham-Southern College

Welcome to Exploration Term 2019

Exploration Term refers to a period of four weeks during January that provides an opportunity for innovation and experimentation for both students and faculty. Exploration Term, formerly known as interim, has been a part of BSC's curriculum since 1968. The projects offered during Exploration Term may vary in content and technique, but they all share the goal of providing an opportunity for exploration not possible during the regular term, including opportunities for study-travel or focused creative production. In addition to faculty-led projects, sophomore, junior, and senior students are encouraged to use initiative and imagination to develop their own contracted projects through the Office of Exploration Term and Contract Learning.

All first-year students must enroll in a project listed in the Exploration Term bulletin; they may not contract individualized Exploration Term projects. Following the first year of study, students may contract individualized projects. Contracted projects meet the same academic standards as projects listed in the Exploration Term bulletin and must be supervised by faculty members from Birmingham-Southern College. Each contracted project must be approved by the project sponsor, the student's faculty advisor, the appropriate department chair, and the Exploration Term and Contract Learning Committee.

Under the Explorations curriculum, students must complete at least two Exploration Term projects. Each project counts as a full unit. All projects, whether graded with a letter or S/U, count toward the requirement of two Exploration Term units. For those majors in which the Exploration Term is used for the senior project, the course must receive a letter grade. A transfer student who meets only the minimum residency requirements for a degree must complete two Exploration Term projects.

All Exploration Term projects are recorded on permanent records and class schedules according to discipline abbreviations (including "GEN" for those projects outside of the disciplines offered at the College). If required for the major, senior Exploration Term projects will be recorded as 499.

Exploration Term projects do not count toward academic area requirements under the Explorations curriculum. Exploration Term projects used to fulfill Explorations Curriculum Learning Outcomes must receive a letter grade.

Important Dates

Thursday, September 13, 2018	January 2019 travel award applications for faculty-led travel* due to the Office of Exploration Term and Contract Learning. Students who have paid deposits towards their trips will receive an invitation to apply. <i>*Students doing independently contracted service-learning travel may apply for the Koinonia award by October 19 via the E-Term/Contract Learning Engage portal.</i>
Thursday, September 27, 2018	First-year students meet with advisors during Common Hour to receive instructions for completing Exploration Term preference forms
Monday, October 1, 2018	First payment installment due to Student Accounts for Exploration Term travel projects
Tuesday, October 2, 2018	Last day for first-year students to complete online Exploration Term preference forms
Tuesday, October 16, 2018– Friday, October 19, 2018	Exploration Term Registration for seniors, juniors, and sophomores
Friday, October 19, 2018	Exploration Term contracts due in the Office of Exploration Term and Contract Learning
Friday, October 19, 2018	Koinonia travel award applications for students engaged in independently contracted travel study are due
Friday, November 2, 2018	Second and final payment installment due to Student Accounts for Exploration Term travel projects
Thursday, November 15, 2018	Exploration Term project orientation meetings for all projects during Common Hour
Wednesday, January 2, 2019	Residence halls open at 10:00 am
Thursday, January 3, 2019	First day of Exploration Term
Monday, January 7, 2019	Last day to drop without a grade or to add an Exploration Term project
Tuesday, January 15, 2019	Last day to drop a project with a grade of "W"
Monday, January 21, 2019	Martin Luther King, Jr., Day (no classes)

Thursday, January 31, 2019	Last day of Exploration Term
Friday, February 1 – Sunday, February 3, 2019	Winter Break
Friday, February 8, 2019	Professors report Exploration Term grades
Friday, February 8, 2019	E-Term photo contest entries due
Tuesday, February 12, 2019	Grades available on TheSIS

How to Register for Exploration Term

Students are expected to register for only one Exploration Term project during the month of January and to be involved with that project for at least 150 clock hours for the term.

All projects have a required Exploration Term orientation on Thursday, November 15, 2018, during Common Hour.

First-Year Students

First-year students should complete online preference forms listing their top five choices of Exploration Term projects. Students will be placed in their projects and registered by the Office of Exploration Term and Contract Learning.

1. See your advisor for registration instructions on Thursday, September 27, 2018, during Common Hour.
2. Submit your online preference form no later than midnight, Tuesday, October 2, 2018.
3. The Office of Exploration Term and Contract Learning will register you for the project in which you have been placed. You may change projects, subject to project capacity, at any time between the end of upper-division registration and Monday, January 7, 2019.

Upper-Division Students

Upper-division registration for Exploration Term takes place October 16–19, 2018, on TheSIS.

1. Prior to Exploration Term registration, see your advisor to discuss Exploration Term projects and spring term projects.
2. Exploration Term registration times and instructions will be provided by Academic Records in the weeks prior to registration.

Drop and Add Policy

All Exploration Term project changes must be made by the third day of Exploration Term, Monday, January 7, 2019. A student cannot drop a project without a grade of “W” after the third day of Exploration Term. If a student drops after Tuesday, January 15, 2018, a grade of “F” or “U” will automatically be assigned.

Questions About Exploration Term?

Contact the Office of Exploration Term and Contract Learning
 Katie Kauffman
 Norton 262
 tel. (205) 226-4647
 kskauffm@bsc.edu

Independent Study Contracts

Sophomores, juniors, and seniors who wish to engage in independent study for Exploration Term may do so through an independent study contract. Any student wishing to pursue independent study should formulate a contract, working in close consultation with a faculty sponsor. Once the contract is approved by the project sponsor, the student's advisor, and the department chair, the student submits the contract to the Office of Exploration Term and Contract Learning. After contracts are reviewed, the Exploration Term and Contract Learning Committee notifies the student of any changes required for the contract to receive approval and be registered. If the contract is not approved, the student should register for an Exploration Term project published in the bulletin.

Independent study contracts should meet the academic standards of all Exploration Term projects. The student is expected to engage in 150 clock hours of focused academic activity and to meet the terms of the study contract: follow the project's methodology as stated in the study contract, attend all required meetings with the faculty sponsor, and submit the final academic product as indicated in the contract.

Contracts for independent study and internships are due to the Office of Exploration Term and Contract Learning by Friday, October 19, 2018.

The contract form may be found online at <http://www.bsc.edu/academics/krulak/exp-con/contract.html>. All contracts that include activities off-campus also require a release form. Additionally, all contracted internships require a signed Internship Agreement form. These may be obtained at the Office of Exploration Term and Contract Learning (Norton 262) or at <https://bsc.campuslabs.com/engage/organization/e-term-contract-learning>. Students engaged in contracts for Exploration Term 2019 will be registered automatically by the Office of Exploration Term and Contract Learning; students pursuing Exploration Term contracts do not register on TheSIS, nor do they need to attend an orientation meeting on November 16. Examples of completed individualized study contracts may be reviewed at the above contract website.

Note: Students who wish to complete internships which fall under the purview of established faculty-directed projects (i.e., Accounting, Business, Pre-Health, Pre-Law, Public History, Religion, and Student Teaching) simply register for the project and do not complete an independent study contract.

Internships

Students interested in pursuing an internship for E-Term, whether through a course or through a contract, should start planning early and are encouraged to meet with Katy Smith, assistant director of internships (kesmith@bsc.edu) for assistance and guidance.

Senior Exploration Term Projects

Many academic disciplines require students to complete a Senior Exploration Term Project in their major. This project is usually carried out in the senior year, but occasionally students are given permission to complete the senior project in their junior year. To fulfill this requirement, a student may either register for an Exploration Term senior project offered in her or his major or contract an independent project with a faculty member in that major.

Requirements for Off-Campus Study and Travel

Any student traveling off campus during Exploration Term—whether for a BSC study-travel project, an independent study project, or an internship—must complete and sign a release form. For students under 19 years of age, a parent or guardian must sign the release. Release forms are located on the Exploration Term/Contract Learning section of the BSC website, under “Release Forms” (<http://www.bsc.edu/academics/krulak/exp-con/release-forms.html>).

Students traveling internationally will be required to read the State Department's Consular Information Sheets and Travel Advisories at <http://travel.state.gov>. Students are required to purchase BSC's travel health insurance plan (approximately \$20 per week of travel), which will be automatically billed to each student. Students should be aware that, given the international safety and health concerns, there is always the possibility that certain study-travel projects may be modified, canceled, or postponed.

Travel Policy

As our world becomes increasingly interconnected, study-travel is an important mode of experiential learning, providing broad and diverse contexts for intellectual and personal growth. As such, Birmingham-Southern encourages students to integrate a study-travel experience into their academic career by providing the opportunity to study off-campus either independently or through a study-travel project led by a faculty member.

Since study-travel is in effect an extension of the physical campus, students studying off-campus are required to conform to BSC's academic and social regulations and policies as if they were in the classroom or on the campus. Students who wish to participate in an Exploration Term study-travel project should be in good academic and social standing. BSC requires all students to conform to both US and local laws of the host country when traveling abroad, including those pertaining to the use of alcohol, controlled substances, prescription medication, and public behavior.

Students are expected to follow the directions of the faculty. Faculty leading study-travel projects may establish additional policies of academic and social conduct to which students consent when they register for the project. Failure to comply with either BSC's general policies or the policies established by the faculty leading the project can result in disciplinary action and/or a failing grade for the project. In extreme circumstances—should the student endanger him or herself or others, or threaten the integrity of the project—and at the discretion of the project's faculty leader, the student may be sent home at his or her own expense.

Deposits and fees must be paid in a timely manner. Study-travel projects led by faculty require a deposit early in fall term. Check with your faculty leader for the deposit amount and deadline. Refer to the financial agreement for information on when the first and final payments for each study-travel project are due. If an insufficient number of students express interest in any study-travel project, the College will cancel it before Monday, October 1, 2018. Students who elect to withdraw from a study-travel project are not guaranteed a refund of any monies submitted toward the project.

In order to participate in study-travel, students must:

1. Be in good academic and social standing at the College.
2. Submit a deposit and Commitment to Travel form to the Office of Exploration Term and Contract Learning (Norton 262) by Monday, October 1 (or Thursday, September 13 to be travel award eligible), or an earlier date set by the project's faculty leader.
3. Submit a signed financial agreement, release form, and proof of passport no later than September 28 to the Office of Exploration Term and Contract Learning.

NOTE: It is possible that some trips may still have available spots after Monday, October 1, however, the student runs the risk of the trip being canceled or full if they wait until then to commit.

Failure to comply with these requirements will result in a student being rejected for or removed from the project, regardless of whether he or she has paid a deposit or registered for the project.

Exploration Term Travel Awards

Through the Student Government Association, funds are available for Exploration Term travel awards for sophomores, juniors, and seniors who will be engaged in domestic or international study-travel. Preference will be based on financial need, student seniority, demonstrated financial commitment (i.e., for students who have made a deposit prior to applying for a travel award), and not having previously traveled for E-Term. The Exploration Term and Contract Learning Committee and SGA representatives determine the recipients of the travel awards.

Applications for travel awards for faculty-led travel* are available on the E-Term/Contract Learning Engage page: <https://bsc.campuslabs.com/engage/organization/e-term-contract-learning>.

Completed applications must be submitted to the Office of Exploration Term and Contract Learning on or before Thursday, September 13. Students requesting funds for independent projects must submit a completed contract approved using the contract requirements listed above.

*For independent student contracts, the Koinonia Scholarship provides financial support for a student or group of students to contract an Exploration Term project concentrating on service issues in the global community. Applications for the Koinonia as well as for other travel awards for independently-contracted E-Term travel are due on or before Friday, October 19, 2018; applications will be made available on the E-Term/Contract Learning Engage portal.

Exploration Term Photography Contest

Be sure you're photographing your E-Term experiences! You could win a cash prize and a place on the cover of the 2020 Exploration Term bulletin!

Here are the rules: Contestants must be students of Birmingham-Southern College and have taken the photographs themselves. The subject of the photographs must be an Exploration Term 2019 project. Photographs of both on- and off-campus projects are welcome! E-mail submissions to kskauffm@bsc.edu. High quality images are preferred, meaning (ideally) a minimum image size of 5 x 5 inches and a minimum resolution of 300 dpi. JPEG and TIFF files provide best results. Setting your camera to its highest-quality setting should result in a print-quality image. Entries must include the photograph's title, location, Exploration Term project, student's name, student ID, and student's campus box number. Entries must be received in the Office of Exploration Term and Contract Learning by Friday, February 8, 2019. Entrants in the contest consent to allow their photographs to be reproduced in Exploration Term and Contract Learning promotional materials.

Project List

Project Number	Project Title	Faculty	Prerequisites and Notes
AC*499*1	Senior Project in Accounting	Klersey	rise3, Junior and Senior Accounting Majors who have taken AC 322, 324, and 422
CAC*299*2	Manipulating Rhythm: Computationally changing the sound of tap	Wagner	Experience in either programming, music, or dance (specifically, tap) is a bonus but not required
ARB*299*3	Riots, Religion, and Rap: Arabic Poetry of the Resistance	Benyoussef	Leadership Studies
AR*499*4	Advanced Studio Art Projects	Neel	Art Studio BFA and BA candidates who have taken AR 471
AR*299*5	Bullfrog Bend Revisited: Creating a Book from Interviews to Photographs to Publication	Holt, Venz	Students may register as AR or UES
AR*299*6	Introduction to Fresco	Tarrasch	Art majors, Art minors, students interested in exploring different and new art techniques
AR*299*7	Printmaking: Art in Collaboration	Shook	One of the Following: AR 111, 150, 131, 330, 331, 332, 333, 334, or Consent
AR*299*8	Watercolor	Cole	Seniors who have completed a research-intensive course or rise3 independent research experience
AN*299*9	Martial Arts Cinema: Philosophy, Literature, and Art	Coyle	
BI*499*10	Capstone Seminar in Biology	Hanson	
BI*299*11	Critical Thinking and Cryptozoology: Is Bigfoot Out There?	Hoffman	Students should be physically fit rise3, Sophomores, Juniors, Seniors
BI*299*12	Field Ornithology	Duncan	
BA*299*13	Business Internships	Cleveland	
BA*299*14	Moving up the food chain: Vertical Integration in European Agribusiness firms	Morrow, Robicheaux	TRAVEL, Instructor Consent
BA*499*15	Moving up the food chain: Vertical Integration in European Agribusiness firms	Morrow, Robicheaux	TRAVEL, Instructor Consent, Senior Business Majors
BA*499*16	Senior Capstone in Business	Harrison, Lester, Shoreibah, Smith	Senior Business majors who have met the pre-requisites
CH*299*17	Innovating Chemistry Education	Hayden	At least one semester of a college level natural science course (PH, CH, BI, or UES)
CL*299*18	Classical and Renaissance Italy: The Major Cities and the Places in Between	McInturff, Cottrill	TRAVEL, Instructor Consent
EC*299*19	Philosophy, Politics, and Economics	Portillo	Students who have taken EC 201 or 202
ED*299*20	Exploring Teaching in Primary Schools	Jacobs	Seniors Education Majors approved for Teaching Internship
ED*299*21	Exploring Teaching in Secondary Schools	Eloubeidi	
ED*499*22	Internship I	Barnes, Russell	
ED*499*23	Service-Learning: Education in Uganda	Spencer, Harper	TRAVEL, rise3, Service-Learning, Senior Education Majors
EH*299*24	The Art of Stand-Up Comedy	Johnson	TRAVEL, Instructor Consent
EH*299*25	Classical and Renaissance Italy: The Major Cities and the Places in Between	McInturff, Cottrill	
EH*299*26	Far from Paradise: The Dystopian As Imagined and Made Real	Stitt	EH 102 or 208
EH*499*27	A Month of Sundays: Intensive Research in Literature	Ullrich	English Majors with a serious interest in research; Instructor's Consent
EH*299*28	Novels Right Now: Commodities or Future Masterpieces?	Archer	EH 102, 208, or the like
EH*299*29	Southern Food and Culture: We Are What We Eat	Thompson	
GEN*299*30	Ancient Greece: Art, Politics, Religion, and Theater	Gilbert, Litsey	
GEN*299*31	Beginning Sign Language	Mathison	TRAVEL, Instructor Consent
GEN*299*32	Blue Gold: The Science and History of Water	South	TRAVEL, rise3, Service-Learning, Instructor Consent
GEN*299*33	Broadcasting and Announcing	Bloom	
GEN*299*34	Community Sustainability in Costa Rica	Drace, Dorman	

Project Number	Project Title	Faculty	Prerequisites and Notes
GEN*299*35	Criminal Law: An Overview	Taylor	Leadership Studies
GEN*299*36	Dialogues Across Differences: Facilitating Challenging Conversations	Andersen, King	
GEN*299*37	Digital Detox: Mindfulness Meditation in the Modern World	Chandler	First-Years, Sophomores, Juniors
GEN*299*38	Explorations of Qi (ch'i, "life energy")	Huang	
GEN*299*39	Introduction to 3D Printing	Stanton	
GEN*299*40	Like A Rolling Stone: Bob Dylan in America or Why Bob Dylan Matters	Schantz	
GEN*299*41	Martial Arts: Philosophy and Practice	Gannon	Students should be physically fit
GEN*299*42	Pre-Health Internship	Buckingham	
GEN*299*43	Service-Learning: Education in Uganda	Harper, Spencer	Public Health, Sophomores, Juniors, Seniors & Pre-health track, 3.2 GPA, proof of current vaccinations and health insurance; Pharm Tech license required for pharmacy shadowing
GEN*299*44	The U.S. National Security System: A Historical and Contemporary Overview	Rowe	TRAVEL, rise3, Service-Learning, Instructor Consent
GEN*299*45	Walking Birmingham: History and Habitat	Rossmann	Leadership Studies
GEN*299*46	Weird Movies with Weird Music	Grall	
HS*499*47	Investigations into Human Biology and Health	Gibbs	
HS*299*48	Rise3 Pre-Health Internship	Buckingham	
HI*299*49	The Bombingham Project: Research in Racially Motivated Bombings	Hustwit	Seniors majoring in Health Sciences or Instructor Consent, Public Health
HI*299*50	The "Great War": Britain and the First World War, 1914-1918	Lester	rise3, Public Health, Sophomores, Juniors, Seniors & Pre-health track, 3.2 GPA, proof of current vaccinations and health insurance; Pharm Tech license required for pharmacy shadowing
HI*299*51	Public History Internships	Law	
HI*299*52	The Reel Civil War: Fact vs. Fiction	Ott	rise3, Instructor Consent; Sophomores, Juniors, and Seniors in any major with at least one history course
HI*299*53	World War II Films the World Over	Levey	
HRC*299*54	Black, Green, and Between: Human Rights in Alabama and Ireland	Sprayberry, Brown	TRAVEL, rise3, Instructor Consent, Sophomores, Juniors, and Seniors
MA*299*55	Analytic Methods in Sports	Barton	Senior and Junior Math Majors who have passed MA 470
MA*299*56	Senior Project in Mathematics	Moxley, Riley	
MFS*299*57	Sports Media	Champion, Corna	Audition/Interview, Instructor Consent
MU*299*58	Theatre Performance Ensemble: Sunday In The Park With George	Flowers, Kensmoe, Mielke, Seigel	
MU*499*59	Theatre Performance Ensemble: Sunday In The Park With George	Flowers, Kensmoe, Mielke, Seigel	Audition/Interview, Instructor Consent, Senior Music Majors
PL*299*60	Philosophy and Film	Myers	First-Years and Sophomores
PH*299*61	Science and Pseudoscience	Rupright	
PH*299*62	The Science of Cooking	Pontius	Algebra Proficiency / MA 115
PH*299*63	Solar and Fuel Cell Technology	Rhoades	
PS*299*64	Exploring Ghana: History, Thought, Culture, and Politics	Gawronski, Melonas	TRAVEL; rise3; Sophomores, Juniors, and Seniors
PS*299*65	Music, Politics, and Society	Jenkins	None
PS*299*66	Pre-Law Internship	Ashe	rise3, Juniors (or Seniors by consent), 3.3 GPA or consent
PY*299*67	Psychology of Games	Kraemer	None
PY*299*68	The Science of Social Networks: Why "Happiness is Contagious, You'll Never Date Your Ex's Current Partner's Ex and Your Vote Doesn't Count"	Allen	PY 101 recommended but not required
PY*499*69	Senior Seminar: Research in Psychology I	Valenti	Senior PY majors who have passed PY 304; Junior PY majors by consent

RE*299*70	Internship in Religion, Community, and Social Change	Sutton	rise3, Sophomores, Juniors, and Seniors; Internship placement by Thanksgiving
SO*299*71	Homelessness in Birmingham and Alabama	Hansard	rise3, Service-Learning, Poverty Studies
SO*299*72	Sociology of Therapy and Service Animals	Mills	rise3, Service-Learning
SN*299*73	E-Term in Ecuador	Domcekova	TRAVEL, Instructor Consent
THA*299*74	Theatre Performance Ensemble: Sunday In The Park With George	Flowers, Kensmoe, Mielke, Seigel	Audition/Interview, Instructor Consent
THA*499*75	Theatre Performance Ensemble: Sunday In The Park With George	Flowers, Kensmoe, Mielke, Seigel	Audition/Interview, Instructor Consent, Senior Theatre Majors
UES*299*76	Bullfrog Bend Revisited: Creating a Book from Interviews to Photographs to Publication	Holt, Venz	Students may register as AR or UES

Exploration Term 2019 Project Descriptions

Special Project Designations



Leadership Studies Project



Service-Learning Project



Study-Travel Project



rise³ Project



Poverty Studies Project



Public Health Project

ACCOUNTING

AC*499*1 Senior Project in Accounting George Klersey

Prerequisites: AC 322, 324, and 422
Open To: Juniors and Seniors
Grading System: Letter
Max Enrollment: 30
Meeting Times: M Tu W Th F 8:00 am - 5:00 pm

The Senior Project in accounting is an experience designed to solidify and enhance students' knowledge in the accounting field. The experience may include a ten-week internship or an in-class project. Topics may include recent accounting developments, extensions of accounting concepts, and exploring basic business systems. Those students electing an internship for their senior project should consult with the disciplinary faculty about the variety of internship options.

Estimated Student Fees: \$250

APPLIED COMPUTER SCIENCE

CAC*299*2 Manipulating Rhythm: Computationally Changing the Sound of Tap Amber Wagner

Prerequisites: Experience in either programming, music, or dance (specifically, tap) is a bonus but not required.
Open To: All Students
Grading System: Letter
Max Enrollment: 12
Meeting Times: M W F 10:00 am - 2:00 pm with a 30-minute break for lunch



In this project, students will learn how to tap dance and gain an understanding of rhythm. Students will then apply that knowledge by manipulating the sounds made by the taps through computing. Students will be expected to learn the necessary programming and architecture skills to build and program the sensors and to learn a tap routine on which to test the sensors and sound manipulation. The project will culminate with students creating a sound track of the tap routine being manipulated through computing along with a report highlighting the tap, architecture, and programming techniques utilized in creating the sound track. In addition to class time and readings, students are expected to work an additional 15 hours outside of class each week writing code and testing sensors. Grades are determined by class participation, tap exercises, programming assignments, a short research paper with reflection (three pages), and a final project, which will include a report (two pages plus poster).

Estimated Student Fees: No fees, but students will need tap shoes

ARABIC

ARB*299*3 Riots, Religion, and Rap: Arabic Poetry of the Resistance Lamia Benyoussef

Prerequisites: None
Open To: All Students
Grading System: Option
Max Enrollment: 16
Meeting Times: M Tu W 9:30 am - 12:30 pm

In Western countries, the word "Islam" is often translated as "submission," or at best, "peace." Arabic poetry originating from the Muslim world, however, displays a long history of non-submission to religious orthodoxy, secular and religious dictatorships, imperialism, and Eastern and Western patriarchy. Students in this discussion-based project will explore poetry of resistance in relation to music and politics of the Arab world through readings, video clips, documentaries, and examples from cyber culture.



In addition to class meetings, outside of class, students will use online resources to complete homework as well as prepare their final assignment and presentation. Evaluation will be based on students' participation and discussion in class; one presentation about an assigned class reading; a final assignment of either an academic research paper or a creative project (8–10 pages); and the oral presentation of the aforesaid final assignment.

Estimated Student Fees: None

ART

AR*499*4

Advanced Studio Art Projects

Jim Neel

Prerequisites: AR 471
Open To: Art Studio BFA and BA Candidates
Grading System: Letter
Max Enrollment: 12
Meeting Times: M Tu W Th 9:30 am – 2:30 pm

AR 499 is the second component of the Senior Capstone experience for the Bachelor of Fine Arts degree in studio art. The BFA candidate will have completed the approved contract proposed at the end of AR 471. This capstone experience is evaluated by the studio art faculty.

AR 499 emphasizes current themes in contemporary art and portfolio development. BFA students will select themes as they relate to the individual and their portfolio as the student focuses on the production and refinement of a cohesive portfolio in preparation for the BFA exhibition. BA students are required to work outside of class to fulfill a minimum 40-hour work week. Class time will be utilized to demonstrate new techniques, group critiques, and individual technical instruction. Grading is based on writing assignments and a final portfolio.
Estimated Student Fees: None

AR*299*5

Bullfrog Bend Revisited: Creating a Book from Interviews to Photographs to Publication

William Holt and Pamela Venz

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th 10:00 am – 12:00 pm with additional times spent on site and conducting interviews

Note: Students have the option of enrolling in this project under either the AR or UES listing

Originally known as Bullfrog Bend, Turkey Creek Nature Preserve contains some of the most biologically diverse habitats in Alabama including endangered species. Using the 1978 publication *Bullfrog Bend: Echoes from Turkey Creek in Jefferson County, Alabama* as a starting point, this project will develop a new book chronicling the preserve's history, development, and place within local culture. Students interested in photography and graphic design will learn the mechanics of digital SLR cameras, the manipulation of graphics-design software programs, and will create the book's layout and imagery. Social science students will gain experience in ethnographic and archival research methods and write the book's copy. Students will be evaluated on participation as well as production of photos, layouts, and book copy.

Estimated Student Fees: None

AR*299*6

Introduction to Fresco

Jürgen Tarrasch

Prerequisites: Art Majors, Art Minors, students interested in exploring different and new art Techniques
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: Tu W Th 9:00 am – 1:00 pm

This project will introduce students to the ancient art of fresco. Students will learn about the materials needed and the various steps involved in the creation of a fresco, including the technique of preparing layers of plaster; the preparation of paints to be used made by grinding individual pigments; the creation of preparatory drawings and how to translate these to the fresco surface; and finally, how to apply the pigments to the wet plaster. Once the paint is applied to the plaster, it cannot be changed. Consequently, the making of a fresco involves much concentration and discipline. The evaluation of the work will be based on preparing every step successfully, from applying the plaster, grinding pigments, transforming the images and, applying pigments. Every board with a fresco will show the progress in artistic execution during this term.

Estimated Student Fees: \$100

AR*299*7

Printmaking: Art in Collaboration

Kevin Shook

Prerequisites: One of the Following: AR 111, 131, 150, 330, 331, 332, 333, 334, or Consent.
Open To: All Students
Grading System: Letter
Max Enrollment: 12
Meeting Times: M Tu W Th 9:30 am – 2:30 pm

In this project, you will be introduced to printmaking as a collaborative art form. Printmaking techniques will be used to print an edition with a visiting artist. This class will develop the student's awareness of his/her creative potential and explore the relationship between creating and collaborating through printmaking. Class time will be utilized to demonstrate new techniques, group critiques, individual technical instruction, and working with a visiting artist. The grade will be based on a final portfolio and collaborating with a visiting artist. Students are required to work outside of class to fulfill 40 hour/week schedule.

Estimated Student Fees: \$100

AR*299*8

Watercolor

Steve Cole

Prerequisites: None
Open To: All Students
Grading System: Option
Max Enrollment: 12
Meeting Times: M Tu W Th F 10:00 am – 3:00 pm

This project explores basic watercolor techniques. Students will be responsible for a final portfolio consisting of assignments outlined at the beginning of the term. Evaluation will be based on the quality of the paintings and the amount of time spent on practice and experimentation as well as attendance.

Estimated Student Fees: Approximately \$150 in out-of-pocket expenses

ASIAN STUDIES

AN*299*9

Martial Arts Cinema: Philosophy, Literature, and Art

Daniel Coyle

Prerequisites: None
Open To: All Students
Grading System: Option
Max Enrollment: 14
Meeting Times: M Tu W Th 12:30 pm – 3:30 pm

This project will explore the emergence and globalization of East Asian martial arts film. Students examine the philosophical roots, classical literature, film art, reception, and global influence of one of the oldest genres in Chinese cinema. We begin by reading selections from primary texts of martial philosophy and early “popular martial fiction” (*wuxia xiaoshuo* 武俠小說), then trace *wuxia* film adaptations from the early 20th century into the transnational kung-fu films (*gongfu pian* 功夫片) of recent decades. Emphasis will be placed on distinguishing the early feminine tradition in Chinese cinema, the inadvertent masculinization that accompanied the rise of realistic Hong Kong kung-fu films in the '60s and '70s, and the gender bending-transpositioning from the '90s forward. We will screen, discuss, and write about works by Zhang Che, King Hu, Bruce Lee, Tsui Hark, Wang Kar-wai, Chen Kaige, and Zhang Yimou.

We will have preparatory reading and screening assignments during Christmas Break. Once the term begins in January, students will spend at least 35 hours per week reading, screening, and researching. Evaluations will be based on attendance, participation, quizzes, presentations, and either a 10-page formal research paper or a documented 20-minute oral PowerPoint presentation.

Estimated Student Fees: \$25

BIOLOGY

BI*499*10

Capstone Seminar in Biology

Pamela Hanson

Prerequisites: Completion of a Research-Intensive Course or rise3 Independent Research Experience
Open To: Senior Biology Majors
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th 9:00 am – 12:00 pm

This culminating seminar for the biology major serves as the second half of the capstone experience and focuses on current research topics and literature in biology. Each student will lead an hour-long discussion on a scientific article relevant to their senior research project. Students will also develop and present a polished 15-minute seminar focused on their previously conducted capstone research project. To demonstrate mastery of the core concepts of biology, students will complete the senior biology exam. This project will also require construction of and critical reflection on an ePortfolio demonstrating each student's skill development and growth as a scientist and life-long learner.

Estimated Student Fees: None

BI*299*11

Critical Thinking and Cryptozoology: Is Bigfoot Out There?

Stephanie Hoffman

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th 9:00 am – 12:00 pm

Hunts for Bigfoot, Nessie, the Yeti, and many other cryptids often gain widespread public attention and have been the focus of entire TV shows. In this course, students will explore the history of cryptozoology and its claims regarding the existence of a number of different cryptids, as well as evaluate the scientific likelihood of the existence and persistence of such organisms. Students will critically analyze the evidences and arguments for and against the existence of individual cryptids. Topics will include Bigfoot, the Loch Ness monster, the Yeti, the sea serpent, and Mokele Mbembe, as well as cryptids of interest to the students. Students will lead and participate in class discussions and activities based on the readings, and be evaluated on class participation, weekly to biweekly 2-3 page argumentative essays on each cryptid covered, and a final 2-3-page argumentative essay on whether cryptozoology should be considered a field of science and research.

Estimated Student Fees: None

BI*299*12

Field Ornithology

Scot Duncan

Prerequisites: Students should be physically fit
Open To: All Students
Grading System: Letter
Max Enrollment: 12
Meeting Times: M Tu W Th F Sat Sun Four field trips/labs per week. All trips start at 7:30 am. Two long field trips each week (end by 5:00 pm), two short trips each week (end by 1:00 pm). Scheduling of trips within the week is dependent on weather conditions. One overnight field trip (two nights) to Dauphin Island will be scheduled, and may include the weekend depending on weather.

Explore the forests, lakes, rivers, fields, and coast of Alabama while tracking down and studying Alabama's birdlife. Much of the project will be spent outdoors finding, identifying, and studying different species of birds. No experience necessary. This project is designed for beginners! We will visit local birding hotspots, but also more distant locations such as Wheeler National Wildlife Refuge and the Talladega National Forest. An overnight trip to Dauphin Island is planned to study coastal birds. Some indoor lab time will be spent learning about bird ecology, behavior, anatomy and physiology, and other bizarre attributes of birds. Students should be fit because field trips will involve hiking in rough terrain and being outdoors in cold weather. Grades are based on attendance, participation, a paper on a bird conservation project (5-10 pages), and exams. Binoculars will be available for check-out.

Estimated Student Fees: \$100

BUSINESS

BA*299*13

Business Internships

Paul Cleveland

Prerequisites:	None
Open To:	Sophomores, Juniors, Seniors Who Have Secured an Internship
Grading System:	S/U
Max Enrollment:	16
Meeting Times:	The last common hour of fall semester. The month of January TBD by employer

Students will identify and secure an internship with a business or organization (for-profit or non-profit). Students are expected to devote 150 hours to the completion of the project. Students will keep a journal of their experiences answering basic questions daily relating their working experience to their academic learning. Students will read relevant articles and books related to their work and write a critical reflection paper to be turned in at the end of the experience. In addition, students will arrange for their supervisors to provide an evaluation of their performance to the instructor. Students are encouraged to arrange an internship well before registering for Exploration Term and to have it available for the instructor when they seek consent to register for the project.

Note: Students registered for this project are required to meet with Dr. Cleveland during the last common hour of Fall semester.

Estimated Student Fees: None

BA*299*14

Moving up the Food Chain: Vertical Integration in European Agribusiness Firms

Bert Morrow and Sara Robicheaux

Prerequisites:	Instructor Consent
Open To:	All Students
Grading System:	Option
Max Enrollment:	20
On Campus Meeting Times:	January 3 - 7 and 22 - 31
Travel Dates:	January 7 - 21

Students will visit the Czech Republic and Italy to study agribusiness firms engaged in food production. Particular emphasis will be given to the issues of vertical integration and the extent to which technological innovations have been adopted in a firm's value chain. We will also explore how these firms acquire inputs, access distribution channels, and manage their labor and product markets.

Estimated Student Fees: \$4800

BA*499*15

Moving up the Food Chain: Vertical Integration in European Agribusiness Firms

Bert Morrow and Sara Robicheaux

Prerequisites:	Instructor Consent
Open To:	Senior Business Majors
Grading System:	Letter
Max Enrollment:	20
On Campus Meeting Times:	January 3 - 7 and 22 - 31
Travel Dates:	January 7 - 21

Students will visit the Czech Republic and Italy to study agribusiness firms engaged in food production. Particular emphasis will be given to the issues of

rise³



vertical integration and the extent to which technological innovations have been adopted in a firm's value chain. We will also explore how these firms acquire inputs, access distribution channels, and manage their labor and product markets.

Estimated Student Fees: \$4950 + \$275 BA 499 fee

BA*499*16

Senior Capstone in Business

Mary Harrison, Rick Lester, Ream Shoreibah, Tracy Smith

Prerequisites:	BA 400
Open To:	Senior Business Majors who have met the pre-reqs
Grading System:	Letter
Max Enrollment:	60
Meeting Times:	M Tu W Th F Sat Sun 8:30 am - 4:30 pm

This project is designed for students to develop entrepreneurial thinking. It will emphasize the entrepreneurial process, which includes evaluating entrepreneurial opportunities, launching the new venture, and managing the new business.

The goal of this project is to familiarize the student with the entire entrepreneurial process, and in so doing, boost the student's confidence in his or her ability to actually develop and open a new venture. Emphasis will be placed on identifying available resources and then matching those resources with environmental opportunities. The goals of this project will be accomplished by pitching a new business idea, writing a business plan, running the business for two weeks, and then presenting the plan and experience to a group of faculty and executives. Each student group will receive seed money after the successful completion of their business proposal.

Estimated Student Fees: \$275

CHEMISTRY

CH*299*17

Innovating Chemistry Education

Kate Hayden

Prerequisites:	At least one semester of a college level natural science course (PH, CH, BI, or UES)
Open To:	All Students
Grading System:	Letter
Max Enrollment:	10
Meeting Times:	M Tu W Th 9:30 am - 12:30 pm, and one afternoon (3 hrs) a week DHAR for studio time

In this project, students will explore various evidence-based teaching practices utilized in chemistry education to promote both individual learning at home and help create cooperative learning environments in the classroom. Through this investigation into best practices and blended learning, students will then work with faculty to develop active learning modules with interactive supplemental instructional videos highlighting introductory chemical principles and problem-solving strategies. Each pair of students will create two polished and interactive instructional videos, from pre- to post- production, coupled with a collaborative learning module that could be implemented in either online or face-to-face courses focused on topics commonly addressed in the first-year chemistry curriculum. Students will be assessed by faculty and peers on both, content and quality of their videos, the design of their corresponding collaborative learning activity, and the overall effectiveness of their learning modules to promote higher-order

cognitive understanding of chemistry concepts. Successful learning modules will then be compiled into a growing online database of materials that chemistry faculty across the ACS can utilize within their own courses.

Estimated Student Fees: None

CLASSICS

CL*299*18

Classical and Renaissance Italy:

The Major Cities and the Places in Between

Michael McInturff and Amy Cottrill

Prerequisites: None
Open To: All Students
Grading System: S/U
Max Enrollment: 20
Meeting Times: January 3 – 6, 10:00 am – 3:00 pm
Travel Dates: January 8 – 28



After a series of orientation sessions early in the Exploration Term, this three-week travel-study experience will visit major cultural and historical sites in Italy. We will examine the world of the ancient Romans and Etruscans, explore the foundations of modern Europe in medieval and Renaissance Italy, and focus in particular on how art, architecture, and urban life express cultural and intellectual history. We will be based in Rome, Florence, and Venice. We will visit Pompeii, Pisa, Pienza, and other areas. Students will research and present/lead three docent topics each. These will be selected in consultation with the faculty leader.

Estimated Student Fees: \$5250

ECONOMICS

EC*299*19

Philosophy, Politics, and Economics

Javier Portillo

Prerequisites: Principles of Microeconomics (EC 201) or Principles of Macroeconomics (EC 202)
Open To: Students who have taken EC 201 or 202
Grading System: S/U
Max Enrollment: 12
Meeting Times: Mon Tu W Th 1:00 pm – 4:30 pm

In this project we will be exploring the intersection between philosophy, politics, and economics. We are going to dive into some very important ideas that lay at the foundation of civilization and that defy easy categorization as “economics,” “philosophy,” and “politics.” By the time we are finished, we will be closer to an integrated understanding of how societies work. Students will be asked to write reflections at the end of every class period based on a set of readings and class discussion. Students will also submit a 10-page final paper at the end of the term on a relevant topic (chosen by the student), which will be discussed on the final day of the project. We will use the book *Philosophy, Politics, and Economics: An Anthology* by Anomaly, et. al. (2015). Additional readings will be made available via Moodle.

In this project we will also be engaging with students at Samford University. Therefore, we will be holding some meetings at Samford and other meetings at BSC. The instructor will try to help coordinate transportation as needed.

Estimated Student Fees: None

EDUCATION

ED*299*20

Exploring Teaching in Primary Schools

Louanne Jacobs

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 30
Meeting Times: M Tu W Th F 7:30 am – 3:00 pm

This project is a field-based Exploration Term project that requires 75 hours of observation and participation in classrooms at the elementary school level. Students will analyze assigned readings, observe in schools, and articulate their experiences in the classroom in a reflection paper.

Estimated Student Fees: Some out-of-pocket expenses

ED*299*21

Exploring Teaching in Secondary Schools

Rana Al-Khatib Eloubeidi

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 30
Meeting Times: M Tu W Th F 7:30 am – 3:00 pm

This project is a field-based Exploration Term project that requires 75 hours of observation and participation in classrooms. The observations take place at the middle school and high school level. Students will analyze assigned readings, observe in schools, and articulate their experiences in the classroom in a reflection paper.

Estimated Student Fees: Some out-of-pocket expenses

ED*499*22

Internship I

Gay Barnes and Kelly Russell

Prerequisites: Approval for Student Teaching Internship
Open To: Senior Education Majors
Grading System: Letter
Max Enrollment: 15
Meeting Times: M Tu W Th F 8:00 am – 3:00 pm

ED 499 is the capstone experience in clinical practice that involves full-time assignment to a collaborative classroom or resource room for four weeks under the joint supervision of a certified teacher and a college supervisor. Students will design, plan, and implement coordinated learning experiences for special-needs children, attend regular seminars, engage in independent conferences, and participate in the development of Individualized Education Programs for special-needs students.

Estimated Student Fees: None

ED*499*23**Service Learning: Education in Uganda****Amelia Spencer and Kristin Harper**

Prerequisites:	Senior Education Majors
Open To:	All Students
Grading System:	S/U
Max Enrollment:	16
On-Campus Meeting Dates:	January 3 – 5
Travel Dates:	January 6 – 27



Project participants will travel to Mukono, Uganda, to work with the primary purpose of teaching English at the Buiga Sunrise School. Students will experience cultural immersion through service. Participants will also experience the culture and natural resources of Uganda, visiting Murchison Falls National Park and the source of the Nile River. Participation in this project is a major commitment by the student both prior to and during Exploration Term, requiring self-motivation and self-discipline. Requirements include fall preparation meetings, lesson planning, active participation on site in January and in discussions during class meetings, reading assigned literature, a reflective journal, and a final reflective essay. Evaluation will be based on the quality of the student's work on each of the above requirements.

Note: Participants will be selected through an application process.

Estimated student fees: \$5500

ENGLISH**EH*299*24****The Art of Stand-Up Comedy****Lucas Johnson**

Prerequisites:	None
Open To:	All Students
Grading System:	S/U
Max Enrollment:	14
Meeting Times:	M Tu Th F 10:00 am – 12:00 pm

In this E-Term experience, students will become acquainted with a brief history of stand-up comedy in America. Stand-up has been central to American culture and entertainment, and in this project, we will understand both how and why. We will spend much of class time watching comedy routines from comics past and present, analyzing the form of the routines, the genre, the storytelling, the profanity (or lack thereof), and the cultural packaging of humor. Students will create their own 10-minute comedy routine and perform with their peers at the BSC Comedy Night, which will take place on the last Friday night of E-Term.

Note: Much of the content in this project will address adult issues and will contain elements of profanity.

Estimated Student Fees: None

EH*299*25**Classical and Renaissance Italy:****The Major Cities and the Places in Between****Michael McInturff and Amy Cottrill**

Prerequisites:	None
Open To:	All Students
Grading System:	S/U
Max Enrollment:	20
Meeting Times:	January 3 – 6, 10:00 am – 3:00 pm
Travel Dates:	January 8 – 28



See description under Classics.

EH*299*26**Far from Paradise: The Dystopian As Imagined and Made Real****Joseph Stitt**

Prerequisites:	EH 102 or 208
Open To:	All Students
Grading System:	Letter
Max Enrollment:	16
Meeting Times:	M Tu Th 9:00 am – 12:00 pm

The project will explore dystopias both real and imagined. The primary focus will be on film and literature, but we will also examine television, history, and cultural criticism. Possible works and writers might include *The Waste Land*, "The Machine Stops," *A Clockwork Orange*, "The Ones Who Walk Away from Omelas," *Blade Runner*, *The Killing Fields*, *Children of Men*, *Idiocracy*, *The Lives of Others*, *WALL-E*, *Black Mirror*, *Ready Player One*, Max Weber, Aldous Huxley, George Orwell, Max Horkheimer, Ray Bradbury, Aleksandr Solzhenitsyn, and John Gray. We will consider the meaning of dystopia in the context of modernity and attempt to imagine observing the dystopian from the inside as well as the outside. We will also consider to what extent (if any) our current situation is dystopian. Evaluation will be based on quizzes, one short paper (5-6 pages), one long paper (12+ pages), and a final exam.

Estimated Student Fees: None

EH*499*27**A Month of Sundays: Intensive Research in Literature****David Ullrich**

Prerequisites:	Serious Interest in Research/Instructor's Consent
Open To:	English Majors
Grading System:	Letter
Max Enrollment:	5
Meeting Times:	Tu Th 10:00 am – 2:00 pm

This project requires the instructor's prior approval. In consultation with the instructor, the student will research a specific issue in literature and write a twelve (+/-) paged paper that evolves from the student's course of study. The research perspectives will be a mixture of close readings of texts and cultural studies. For example, the student might read a selection of Kate Chopin's fiction and her most important biographies. In conjunction with this work, the student will find and analyze 50 or more photographs of the interior of passenger trains and train stations from 1890-1900 in order to analyze if and under what social strictures women travelled during this period. The topics will be interesting, but they will be assigned by the instructor, in consultation with the student. The project

will meet as a group on assigned days as well as individual conferences. Evaluation will be based on attendance, the quality of research completed, (30%), and the research paper itself (70%). The entire E-Term project—class time, consultations, time-intensive (individualized) research, the writing and revision of the research paper, and more—will meet or exceed the 150-hour requirement.

Estimated Student Fees: Student will need to budget approximately \$100 for books

EH*299*28

Novels Right Now: Commodities or Future Masterpieces?

Jane Archer

Prerequisites: None
Open To: All Students
Grading System: Option
Max Enrollment: 16
Meeting Times: M Tu Th 1:00 pm – 3:30 pm

In this project, we will read four very recent novels that have appeared on the best-seller lists and have also achieved at least some literary acclaim. In class meetings, we will discuss the novels, but we will also consider what makes books popular and what makes them “literature.” We will explore best-seller lists from the past, as well as past winners of literary awards. We will consider questions such as these:

- Are contemporaries able to recognize a “masterpiece”?
- How often does literary fiction achieve best-seller status?
- What distinguishes literary fiction from commodity fiction?

We will meet three afternoons a week, and students will write 4 short (2–5 page) papers, one about each of the four novels we will read and discuss. In addition, each student will select a related topic to research and present to the class. For instance, one student might look up what was on the best-seller lists when a novel that has entered the literary canon of “great works” was first published. Another student might seek out reviews of best-selling novels from another decade or another century to see if any were proclaimed important works of literature and whether we agree with that judgment now.

Estimated Student Fees: None

EH*299*29

Southern Food and Culture: We Are What We Eat

Melinda Thompson

Prerequisites: EH 102, 208, or the like
Open To: All Students
Grading System: S/U
Max Enrollment: 10
Meeting Times: M W 10:00 am – 2:00 pm

Join us for MRT’s month-long cooking, eating, and writing experience! Students will prepare iconic Southern recipes under the tutelage of a traditional Southern cook and writer. We will meet off-campus two days a week in the home of the professor to prepare a variety of authentic recipes. At the end of each class, we will enjoy eating the meal we have prepared together. Students will be assigned weekly readings and research featuring Southern foods and culture and will be required to participate in group discussions delving into the history, culture, and traditions associated with representational foods, as presented by well-known chefs, food critics, and writers. Students will write weekly

essays (500–1000 words) in response to our discussions about race, gender, poverty, the South, and Southern foods. In addition, students will maintain a personal food journal chronicling their Southern food experiences during the term. Evaluation will be based on: essays, reading discussion, journal, active participation, and attendance.

Estimated Student Fees: \$175, which includes the reading packet

GENERAL STUDIES

GEN*299*30

Ancient Greece: Art, Politics, Religion, and Theatre

Mary Hamil Gilbert and Alan Litsey

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 20
Meeting Times: M W F 9:00 am – 11:00 am
Travel Dates: January 14 – 29



We will spend 15 days in Greece exploring the archaeological remains and museum holdings pertaining to the study of Greek art, politics, religion, and theater. We will perform Greek tragedy at the theatre of Dionysus, study the Greek gods at their cult sites in Delphi and Eleusis, read The Republic at Plato’s Academy, and much more. Sites to be visited include the Acropolis, Agora, Areopagus, Pnyx, Aegina, Eleusis, Delphi, Corinth, Epidauros, Mycenae, Nemea, Olympia, Brauron, and Sounion. We will spend the week before the trip learning basic modern Greek, reading seminal ancient texts, and studying modern archaeological approaches. Students will take a series of reading quizzes and prepare two site presentations.

Estimated Student Fees: \$5000

GEN*299*31

Beginning Sign Language

Amy Mathison

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th F 10:00 am – 1:00 pm, as well as two off-site meals to be scheduled outside of regular class meeting times

The purpose of the project is to enable students to begin to acquire proficiency in American Sign Language through a linguistic, communicative, and cultural approach. Emphasis will be placed on the development of receptive and expressive signing skills and on the acquisition of the fundamentals of applied grammar. ASL will include basic grammar, vocabulary, fingerspelling, numbers, and cultural information related to the deaf and hard of hearing. An exposure to the deaf and hard-of-hearing culture will be presented, and students are expected to participate in deaf classrooms and deaf community groups via field trips. ASL is a visual language, and therefore regular attendance and participation are mandatory to adequately acquire the understanding of the language.

Estimated Student Fees: out-of-pocket expense for a book and the cost of two meals to be ordered via sign language at a restaurant

GEN*299*32**Blue Gold: The Science and History of Water****Antoinette South**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 16
 Meeting Times: M Tu W Th 1:00 pm – 4:00 pm

We use water every day, but most of us don't know where it came from or realize how important it is to our lives. In this project, students will study the science behind the unique properties of water, the hydrologic cycle, and how water is essential for life. Students will also examine the rich cultural and political history associated with water delivery and usage, from ancient aqueducts to today's water wars. Class meetings will consist of reading quizzes, discussion, lectures, activities (such as demonstrations and documentaries), and student presentations. Students are expected to complete readings from selected books (such as *The Big Thirst*, *Water 4.0*, and *Water: A Natural History*) and articles prior to attending class. In small groups, students will also select a relevant research topic and give a 10-15-minute presentation. Grading will be based on quizzes, class participation, group presentation, and a 10-15-page reaction essay.

Estimated Student Fees: None**GEN*299*33****Broadcasting and Announcing****Curt Bloom**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 16
 Meeting Times: M Tu W 10:00 am – 1:00 pm

This project provides training to students on all aspects of broadcast announcing. Aspects of voice and diction relevant to on-air microphone usage are included. Students will be introduced to television and radio terminology and learn how to read programming and radio logs, and edit through Audacity.

Students will visit at least two radio stations and one television set, and will be exposed media personalities in the Birmingham market. A unique aspect of the project is allowing the students to sit in on the instructor's college basketball games that will be televised on ESPN-3.

Students will record on-air material for use in future employment prospects. Previous students had their commercial air all summer during the broadcast of Barons games.

The student's final grade will be determined by in-class participation, progress on reading a 30-second commercial, the quiz, the mid-term, and the final. The mid-term and final projects are audio reads.

Estimated Student Fees: None**GEN*299*34****Community Sustainability in Costa Rica****Kevin Drace and Scott Dorman**

Prerequisites: None
 Open To: All Students
 Grading System: S/U
 Max Enrollment: 16
 Meeting Times: January 7 – 11 and 28 – 30
 Travel Dates: January 13 – 25

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Explore the relationships between communities and their environments while gaining valuable experience developing a research and service-learning project in the small gold-mining town of Las Juntas, Costa Rica. Prior to departure, students will learn about the area's ecological diversity; political, cultural, and social issues; research skills necessary to implement a successful project; and relevant Spanish vocabulary and conversation skills. In Costa Rica, students explore a variety of ecosystems (cloud forests, tropical forests, and Pacific coastline) while interacting with local people to conduct both community service and independent research projects. Research projects may focus on heavy metal pollution from gold mining, conventional versus organic farming practices, public health and policy, or the cultural roles of women. A variety of other projects are available in environmental, agricultural, or community sustainability. All students will be required to keep a reflections journal and a laboratory notebook, and will produce an appropriate presentation of their experience (essay, art exhibit, digital story, etc.).

Estimated Student Fees: \$3500**GEN*299*35****Criminal Law: An Overview****Jack A. Taylor**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 16
 Meeting Times: Tu W Th 9:00 am – 12:00 pm

This project provides an overview of criminal law. We will examine the sources of laws and the various types of crimes such as murder, robbery, and burglary. We will also explore the elements of crimes, their defenses, and their punishment. The U.S. Constitution, the Alabama Criminal Code, and two additional texts will be the primary resource material for the project. We will examine the U.S. Constitution as it applies to the court system, crimes, the rights of the accused, and criminal punishment. Guest speakers will be invited to discuss various topics. Evaluation and grading will be based on class participation, outside assignments, and exams.

Estimated Student Fees: None**GEN*299*36****Dialogues Across Differences: Facilitating Challenging Conversations****Jessica Pincham King and Kent Andersen**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 12
 Meeting Times: Tu W Th F 9:30 am – 12:00 pm



Difficult conversations are a normal part of life. Why do conversations about race, gender, sexuality, politics, and religion often result in hurt feelings, misunderstandings, and more confusion than clarity? How, instead, might we engage others in meaningful conversation—exchanges that result in learning and insight rather than frustration and misunderstanding? How might we develop the skills and capacities to turn the most difficult conversations into meaningful talk? This project explores how to initiate and facilitate productive dialogues. Sessions will review relevant literature on productive exchanges, and explore personal experiences, popular film and TV, and current events. External facilitators will guide some sessions. Assignments include required readings, regular reflective responses to in- and out-of-class activities, short analytical projects, and a major action-project related to dialogues across difference.

Estimated Student Fees: \$50 for honoraria for guest facilitators

GEN*299*37

Digital Detox: Mindfulness Meditation in the Modern World

Joseph Chandler

Prerequisites: None
Open To: All Students
Grading System: S/U
Max Enrollment: 10
Meeting Times: Tu W Th 9:30 am – 12:30 pm

This project will explore practical contemplative meditation in the modern world. Students will study the neuroscience underlying self-control, digital addiction, and the myth of multi-tasking will apply these concepts by developing a personal contemplative practice, including digital blackout periods, mindful eating, mindful studying, mindful hiking, and other accessible disciplines that take meditation out of the mystical and into everyday life. Long-term physical, social, and emotional outcomes of mindfulness will be discussed. Class meetings will center on practical, participatory demonstrations of meditative techniques, discussion of primary source material, and depictions of meditation in modern culture. Students will complete daily reading, writing, and application exercises outside of class, and reading retention will be assessed with weekly quizzes. Application and writing exercises will be graded on a weekly basis. A final 10-page reflection paper will be derived from students' daily journal entries.

Estimated Student Fees: In addition to the cost of books, there may be marginal travel costs associated with field trips, such as gas costs driving to contemplative hikes at Red Mountain, the Birmingham Museum of Art and the Birmingham Botanical Gardens

GEN*299*38

Explorations of Qi (ch'i, "life energy")

Yahui Anita Huang

Prerequisites: None
Open To: First-Years, Sophomores, Juniors
Grading System: Letter
Max Enrollment: 12
Meeting Times: Tu W Th 10:00 am – 12:00 pm, 1:00 pm – 4:00 pm

This project will explore qi (ch'i, "life energy")—the fundamental concept in Chinese medicine, culture, and philosophy. In Chinese culture qi is also the vital source of longevity, natural phenomena, and physical and spiritual power. In this project, we will examine the role qi plays in various aspects of Chinese life through film, food, tea culture,

calligraphy, and literary works. Students will gain a basic understanding of Feng Shui, acupuncture, reflexology, basic calligraphy brush techniques, and the key concepts of yin-yang and wuxing, which are needed to understand the Yijing: The Book of Changes. Students will explore the concept of qi by engaging themselves in exercises that are believed to help one achieve physical and emotional balance, including Qigong (Ch'i-Kung) and Taiji (Tai-Chi). Grades will be based on attendance, participation, a personal journal, a written exam, and one in-class presentation. Knowledge of Chinese language is a plus but not required.

Estimated Student Fees: \$80

GEN*299*39

Introduction to 3D Printing

Clyde Stanton

Prerequisites: No Prior Experience with 3D Printing
Open To: All Students
Grading System: S/U
Max Enrollment: 9
Meeting Times: M Tu W Th 10:00 am – 12:00 pm, 1:30 pm – 3:30 pm + DHAR as needed

The project will provide an introduction to 3D printing for students. The project will cover operation of 3D printers, availability of downloadable 3D object files, identity and use of freeware software for creating 3D figures, and output file formats recognizable by 3D printers. Student teams will construct 3D printers from a DIY kit. Individual students will then use all of the above to design and create their own 3D objects. Students will be required to submit a five-page reflection paper on the process of 3D printing from concept to final product.

Estimated Student Fees: \$75

GEN*299*40

Like A Rolling Stone: Bob Dylan in America, or Why Bob Dylan Matters

Mark S. Schantz

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th 10:00 am – 1:00 pm

Bob Dylan is the most important (and by far the coolest) American songwriter and musician of all time. After winning the Nobel Prize for Literature for 2016, Dylan's place in the history of American letters and in American music seems secure. Our project explores the life and work of Bob Dylan—and what it says about him and about us. By the end of the month, I hope you'll be almost as big a fan of his music as I am—but it's alright ma, if you're not.

During this project we will listen to lots of Dylan's music (approximately 20 albums) and read three books, in addition to screening some documentary film footage and a feature film on Dylan's "identity." Students will write daily response papers of 1-2 double-spaced typed pages in length that engage the assignments of the day. Students will also work in groups to construct a 20-minute presentation on their favorite Dylan album of the term. This class will be conducted in a seminar style. We will also sing together at least one Bob Dylan song each day we meet. If you play the guitar, harmonica, piano, bass, or anything else, we will work together to make a workable band for the project. If you don't play an instrument, please join the class anyway! It's not a requirement.

Estimated Student Fees: Students will be required to purchase three textbooks

GEN*299*41**Martial Arts: Philosophy and Practice****Andy Gannon**

Prerequisites:	Students should be physically fit
Open To:	All Students
Grading System:	S/U
Max Enrollment:	16
Meeting Times:	M Tu W Th F 9:00 am – 3:30 pm

Asian martial arts interweave the philosophies of Taoism and Zen Buddhism with the physical experience. In this project we read and discuss these ancient Asian philosophies as we physically practice and learn about a variety of martial arts. We will work primarily in a modern, holistic, eclectic martial art, Cuong Nhu, that combines the best principles of Tai Chi, Wing Chun Kung Fu, Shotokan Karate, Judo, Aikido, Vovinam, and boxing, but will also experience other martial arts through field trips. Students must be in good physical shape and be prepared for physical activity every day. This project will increase their flexibility, fitness, strength, and basic self-defense skills. We will meet every morning and most afternoons for physical work with readings, viewing of classical martial arts films (Enter the Dragon, 7 Samurai), and discussions interspersed. Required textbooks include the Tao Te Ching, Zen Flesh, Zen Bones; and the Cuong Nhu Training Manual. There will be two written and two physical skills tests and about ten short (one page) papers on martial arts history and philosophy.

Estimated Student Fees: \$30**GEN*299*42****Pre-Health Internship****Sue Buckingham**

Prerequisites:	3.2 GPA, proof of current vaccinations and health insurance; Pharm Tech license required for pharmacy shadowing
Open To:	Sophomores, Juniors, Seniors on Pre-Health Track
Grading System:	S/U
Max Enrollment:	No Limit
Meeting Times:	M Tu W Th F TBD by preceptor; may require Saturdays and overnights

NOTE: The rise3 listing for this internship can be found under Health Sciences (HS). This project allows students planning a career in health care to shadow physicians, dentists, or other health professionals through a 120 contact-hour internship. This internship is designed for students who are sophomores or above. A limited number of established internships are available at Birmingham area healthcare facilities, or students may set up their own internship with a private health care professional if approved by Dr. Buckingham.

Students will read two books about medicine and health care, reflect on their readings and experiences, and write a 5–7-page essay. A satisfactory essay AND a satisfactory evaluation from the student's on-site supervisor are required for credit. A mandatory meeting is held during Fall Term (TBD). Current immunization records must be submitted by early November 2018 to Dr. Buckingham. This project may be repeated for credit, but it must be with a different person than the previous internship.

Estimated Student Fees: May require a lab coat, and must provide own transportation. Estimated book cost is \$25.**GEN*299*43****Service Learning: Education in Uganda****Amelia Spencer and Kristin Harper**

Prerequisites:	Instructor Consent
Open To:	All Students
Grading System:	S/U
Max Enrollment:	16
On Campus Meeting Times:	January 3 – 5
Travel Dates:	January 6 – 27



Project participants will travel to Mukono, Uganda, to work with the primary purpose of teaching English at the Buiga Sunrise School. Students will experience cultural immersion through service. Participants will also experience the culture and natural resources of Uganda, visiting Murchison Falls National Park and the source of the Nile River. Participation in this project is a major commitment by the student both prior to and during Exploration Term, requiring self-motivation and self-discipline. Requirements include fall preparation meetings, lesson planning, active participation on site in January and in discussions during class meetings, reading assigned literature, a reflective journal, and a final reflective essay. Evaluation will be based on the quality of the student's work on each of the above requirements.

Note: Participants will be selected through an application process.

Estimated student fees: \$5500**GEN*299*44****The U.S. National Security System:****A Historical and Contemporary Overview****Ed Rowe**

Prerequisites:	None
Open To:	All Students
Grading System:	Letter
Max Enrollment:	16
Meeting Times:	M Tu W Th 10:00 am – 12:30 pm



The U.S. National Security System is a conglomeration of structures, processes, persons, and organizations that assist the President in formulating, deciding, implementing, and overseeing national security policies and actions. The system was designed for a world environment that no longer exists and cannot now effectively and quickly address current threats. Threats today are diffuse and ambiguous, and express themselves in a multitude of forms—we no longer have the luxury of a singular, unambiguous threat as in World War II and the Cold War. Project will include: the study of government strategy, policy, legal, and doctrine documents; analysis of case studies; examination of select current threats (to include cyber threats and terrorist threats); and the decision process utilized in the National Security Council. Methods used: lectures, guest speakers, extensive source readings, and discussions. Evaluation will be based on attendance, daily participation, an individual presentation, summaries of select reading assignments, and two papers (3–6 pages each).

Estimated Student Fees: None

GEN*299*45**Walking Birmingham: History and Habitat****Kathleen Rossmann**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 10
 Meeting Times: M Tu W Th 10:00 am – 3:00 pm

We will walk the Birmingham area to discover its history and habitat and to benefit from lots of healthy walking. We will explore central Birmingham and Central Alabama habitats such as Oak Mountain State Park, Ruffner Mountain, Tannehill State Park, Red Mountain, Moss Rock, Turkey Creek, the Cahaba River National Wildlife Refuge, and Vulcan Trail. We will also hike habitats in downtown Birmingham such as the Civil Rights Trail, local area cemeteries, the African Village, Railroad Park, and Sloss Furnace. Students will be required to keep a daily journal that reflects upon these experiences and to serve as a “guide” for at least one destination (preparing and researching the site or trail ahead of time for the group). Readings will include handouts, historical and nature guides, and reading on specific treks we undertake. Grades will be based upon participation, the daily journal, preparation for and effectiveness as a “guide,” and a culminating ten-page reflective essay. Time spent hiking, writing, and reading will be at least 40 hours each week and therefore at least 160 hours of clock time.

Note: Students will need to be prepared to walk several miles each day and therefore should have sturdy, close-toed walking shoes, appropriate clothing (layered for the winter weather and including hats and gloves), rain gear, a water bottle, and a day pack for lunches and snacks.

Estimated Student Fees: \$100**GEN*299*46****Weird Movies with Weird Music****Jeremy Grall**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 16
 Meeting Times: Tu W Th 9:00 am – 12:00 pm

This project is an exploration of “weird” art house, oddball, and mainstream films in which the intersection of music and sound are integral to understanding the often complex narrative and/or abstract imagery. While the films presented and discussed in this course are often outside of the mainstream, they have been hugely influential on conventional movie directors. One can often find direct references to these “weirdo” movies in many of today’s Oscar winning films. In this project we will view films by directors such as Stanley Kubrick, George Lucas, David Lynch, Hal Ashby, Jean-Pierre Jeunet, Andrei Tarkovsky, Terrance Malick, Akira Kurosawa, Panos Cosmatos, Wes Anderson, and Alejandro G. Iñárritu. The project will culminate in a film analysis paper in which students incorporate major concepts in media theory and contemporary scholarship in film music

Estimated Student Fees: \$20–\$40 in out-of-pocket expense**HEALTH SCIENCES****HS*499*47****Investigations into Human Biology and Health****Katie Gibbs**

Prerequisites: Senior Standing or Instructor Consent
 Open To: Seniors Majoring in Health Sciences
 Grading System: Letter
 Max Enrollment: 16
 Meeting Times: M Tu W Th 9:00 am – 12:00 pm

Investigations into Human Biology and Health is the capstone experience for Health Science majors. This capstone will reinforce, at an advanced level, the concepts and skills presented in lower-level courses by way of investigating a contemporary research problem in human biology and/or health care. We will review the most recent United States Mortality Report and use the summary data therein to develop individual research projects that use public data from national databases (i.e., the National Health and Nutrition Examination Survey, NHANES) to investigate questions of interest. HS 499 will be an interdisciplinary experience, drawing from both natural and social science disciplines. Students will be evaluated on project development (in-depth annotations of primary scientific literature, hypothesis development, and research strategy), research progress (data collection and analysis), research paper reporting findings (formal scientific paper format, approximately 10–15 pages in length), and a 15-minute oral presentation in preparation for senior conference. Overall, the project will emphasize interdisciplinary thinking, problem solving, analytical skills, and communication skills.

Estimated Student Fees: None**HS*299*48****Rise³ Pre-Health Internship****Sue Buckingham**

Prerequisites: 3.2 GPA, proof of current vaccinations and health insurance; Pharm Tech license required for pharmacy shadowing
 Open To: Sophomores, Juniors, Seniors on Pre-Health Track
 Grading System: S/U
 Max Enrollment: No Limit
 Meeting Times: M Tu W Th F TBD by preceptor; may require Saturdays and overnights

NOTE: The non-rise³ listing for this internship can be found under General Studies (GEN). This project allows students planning a career in health care to shadow physicians, dentists, or other health professionals through a 120 contact-hour internship. This internship is designed specifically for students who are planning on majoring in Health Sciences, sophomores or above, but is open to all sophomore and above students who want a rise³ experience. A limited number of established internships are available at Birmingham area healthcare facilities, or students may set up their own internship with a private healthcare professional if approved by Dr. Buckingham.

Students will read two books about medicine and health care, reflect on their readings and experiences, write 3 short critical reflection essays, and a final 5–7-page critical reflection essay. A satisfactory essay AND a satisfactory evaluation from the student’s on-site supervisor are required for credit. A mandatory meeting is held during Fall Term (TBD). Current



immunization records must be submitted by early November 2018 to Dr. Buckingham. This project may be repeated for credit, but it must be with a different person than the previous internship.

Estimated Student Fees: May require a lab coat, and must provide own transportation. Estimated book cost is \$25.

HISTORY

HI*299*49

The Bombingham Project: Research in Racially Motivated Bombings

William Hustwit

Prerequisites:	None
Open To:	All Students
Grading System:	S/U
Max Enrollment:	10
Meeting Times:	Tu W Th 1:00 pm - 4:00 pm

In consultation with the professor, the student will research specific racially motivated bombings in Birmingham and across America. The research project will depend on a considerable degree of individual motivation and independent student research. For example, the student will research one or more of the bombings in the "Dynamite Hill" neighborhood near BSC's campus. In tandem with this work, the student will collaborate with the Birmingham Public Library to upload her or his research into a new online database hosted by the library archives. The bombing incidents will be varied but will be assigned by the professor in consultation with the student. The class will meet as a group on assigned days as well as individual conferences. Each student will also write a 15-page research paper, including citations and bibliography, due near the end of the term. Evaluation will be based on participation, creativity, the quality of research, and the final research paper. Time spent in class and individual conferences and on research and writing will meet or exceed the 150-hour requirement. No incompletes are allowed.

Estimated Student Fees: None

HI*299*50

The "Great War": Britain and the First World War, 1914-1918

V. Markham Lester

Prerequisites:	None
Open To:	All Students
Grading System:	Letter
Max Enrollment:	15
Meeting Times:	M Tu W Th 9:30 am - 11:30 am

Unlike in America, many in Britain still consider the First World War the truly "Great War" of the last century. Why is this? Examining Britain's role in the First World War (1914-1918), this project explores the reasons why the nation went to war, military strategy, the effects of the war on the home front, Britain's role in peace negotiations, as well as other topics. Attention will also be given to war literature and remembrance of the conflict. There will be out-of-class reading, and evaluation will be based on class participation and short essays.

Estimated Student Fees: None

HI*299*51

Public History Internships

Randy Law

Prerequisites:	At least one history course
Open To:	Sophomores, Juniors, and Seniors in any major
Grading System:	S/U
Max Enrollment:	10
Meeting Times:	TBD by employer

Students will learn about the field of public history as they serve as interns for 30-35 hours per week in libraries, archives, museums, living history sites, and other facilities, all in the Birmingham area. In recent years, students have had internships at institutions such as the archive of the Birmingham Public Library, Vulcan Park and Museum, the Iron and Steel Museum of Alabama, the Southern Museum of Flight, and the Birmingham Civil Rights Institute. Students will be individually placed based on their skills and interests, but all will have the opportunity to apply the tools and knowledge they've gained as historians at BSC, and all will get the chance to explore career possibilities for those who want to work with the public and engage with history outside of the classroom. S/U grade will be based on intern mentor's evaluation and a five-page reflective essay.

Estimated Student Fees: None

HI*299*52

The Reel Civil War: Fact vs. Fiction

Victoria Ott

Prerequisites:	None
Open To:	All Students
Grading System:	Letter
Max Enrollment:	16
Meeting Times:	Tu W Th 9:30 am - 12:30 pm

The Civil War has captivated the American imagination for generations. But what has drawn people to use the war in various artistic forms? Is it to educate the public on the facts of the past? Or is it to offer an interpretation of the past that gives meaning to one's contemporary worldview? In this project we will examine the Civil War in popular culture, past and present, using film as our guiding medium and supplemented by examples of history in art, literature, and music. Assessment of the final grade is based on four short (2-4 page) papers, class discussion based on assigned readings, and one small-group presentation. Students must have access to media sources such as Netflix to view movies outside of class. Many of the movies are also available at the BSC Library.

Estimated Student Fees: None

HI*299*53

World War II Films the World Over

Matt Levey

Prerequisites:	None
Open To:	All Students
Grading System:	Letter
Max Enrollment:	16
Meeting Times:	M Tu W Th F; see project description below for meeting times

In this project, we will view, discuss, and write about selected films from France, Germany (pre-Unified FRG and GDR and unified FRG), the

former Soviet Union and post-Soviet Russia, Japan, China, and the United States which deal with what is called either “World War II” (in the West) or “The Anti-Fascist War” in the former Communist-bloc nations. We will explore some of the many issues related to self-representation and national memory as related to the competing depiction of the war against German “fascism” (as depicted in the former Communist bloc) or “totalitarianism” (as depicted in the West) and against Japanese “militarism” and “imperialism” (as depicted in China—both the Republic and People’s Republic).

The class will meet regularly during the first week to view and discuss one film from each of the nations named above (for a total of five or six); students will spend the remainder of the term researching and writing a paper of 15 pages in length, analyzing a selected number of films in depth, from one of the countries. At the end of the term all students will make a short presentation about their work. Final grades for the project will be determined on the basis of the quality of the research paper, classroom participation, and the oral presentation.

Estimated Student Fees: None

HUMAN RIGHTS AND CONFLICT STUDIES

HRC*299*54

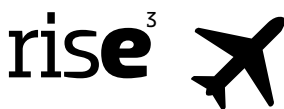
Black, Green, and Between: Human Rights in Alabama and Ireland

Sandra Sprayberry and Erica Brown

Prerequisites: Consent
Open To: Sophomores, Juniors, and Seniors
Grading System: Letter
Max Enrollment: 10
On Campus Meeting Times: Regular meetings throughout the fall term and January meeting times TBA
Travel Dates: January 4-17

Fifty years after the Birmingham and Derry civil rights movements, scholars are drawing substantive historical connections between the movements in Alabama and Ireland. Writers, artists, and musicians at the time of each movement (and still today) called and responded. This project is a cultural immersion in some of these commonalities. In this interdisciplinary and international human rights project, students will study the historical foundations of both movements and will experience—through study-travel in some of the border counties of the Republic of Ireland and Northern Ireland—contemporary efforts towards peace and reconciliation. Students will research the 1950s-60s movement in Birmingham and the 1960-70s movement in Derry. Students will then travel to Dublin, Donegal, and Sligo, Republic of Ireland, and to Derry, Northern Ireland. While there, students will travel to important cultural heritage sites and will meet with community activists. A focal part of the experience will be Drew University’s sixth annual Transatlantic Connections conference. BSC students will present and attend panels and workshops that bring together BSC and Ulster University (Magee campus) students. The conference will attract international scholars and leaders to discuss human rights from a variety of interdisciplinary approaches.

Estimated Student Fees: \$4500



MATHEMATICS

MA*299*55

Analytic Methods in Sports

Jeff Barton

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th 10:30 am – 1:00 pm

This project provides students with an introduction to sports analytics, in particular how mathematics and statistics can be used to answer important questions and inform decision making in sports. We will explore topics from sports such as football, baseball, basketball, and tennis. Of particular interest will be developing the necessary mathematics and statistics to answer questions related to rating player performance, ranking teams, and picking optimal strategies both at the coaching and managerial level. Evaluation will be based on participation, regular homework assignments, and a final project that will require both a class presentation (10-15 minutes) and a written paper (8-12-pages). Students should expect to spend a significant amount of time outside of class meetings collecting data and using that data to develop or test analytic methods. Though there are no formal mathematical prerequisites for this project, some familiarity with basic statistics and Microsoft Excel would be helpful.

Estimated Student Fees: None

MA*499*56

Senior Project in Mathematics

Caleb Moxley and Doug Riley

Prerequisites: MA 470
Open To: Junior and Senior Math Majors
Grading System: Letter
Max Enrollment: 24
Meeting Times: M Tu Th F individual meetings TBA, W 9:30 am – 12:30 pm

Students will focus on special topics in mathematics beyond the scope of the regularly offered courses. Each student will choose a research project and submit a research proposal in writing prior to the end of the fall semester for approval by the instructor(s). Team projects are permitted. The bulk of your time for this project will be independent work on your research project. Any approved research project will take a significant time commitment, so you should be prepared to devote at least 40 hours per week to your research. Additionally, each team will meet with the instructor (M, T, Th, F at times to be arranged), and the class will meet together once per week (Wednesdays 9:30 am – 12:30 pm). Grades will be based on: progress reported in team meetings (15%); oral progress reports in class (20%); final oral presentation at a mathematics conference (15%); draft research paper (5%); and final research paper (45%).

Estimated Student Fees: None

MEDIA AND FILM STUDIES

MFS*299*57

Sports Media

Teddy Champion and Robert Corna

Prerequisites: None
Open To: All Students
Grading System: Option
Max Enrollment: 16
Meeting Times: M Tu W Th 9:00 am – 12:00 pm

Sports Media is a workshop class for students interested in sports writing, broadcasting, and analysis. Students in this project will work closely with BSC's Athletic Department and the Media and Film Studies program to create a pilot episode for a new sports show consisting of highlights and weekly features on athletes, coaches, facilities, and fans. Video segments in the show will run between one and five minutes, and the show will be posted on bscsports.net and the BSC Athletics YouTube Channel. Prior media writing or video production experience is helpful, but not required.

Estimated Student Fees: None

MUSIC

MU*299*58

MU*499*59

**Theatre Performance Ensemble: Sunday In The Park With George
Jeff Kensmoe, Matthew Mielke, Michael Flowers, and Lester Seigel**

Prerequisites: Audition/Interview, Instructor Consent
Open To: All Students
Grading System: Letter
Max Enrollment: 40
Meeting Times: M Tu W Th F 1:00 pm – 6:00 pm

This project is designed to provide an ensemble of students the opportunity to produce the musical *Sunday in the Park with George*. The company will include approximately 40 students, serving as actors and production staff. Cast members, who will also do technical work, are admitted by audition/interview. Production staff members are also admitted by permission of the instructors through audition/interviews. Production opportunities include stage management, costume construction, properties, lighting, and set construction. November, December 2018 commitments: one meeting for the entire company and additional meetings for the cast. The company members will need to work at least 25 hours per week during January 2019 and as needed. Rehearsal and production work will continue past the end of E-Term 2019. Public performances of *Sunday in the Park with George* will take place February 21-24. Evaluation will be based on attendance and promptness to all calls and meetings, attitude, work ethic and demeanor, outside preparation, and performance quality. For senior credit, students will be assigned significant production responsibilities and will produce a substantial paper evaluating the experience.

NOTE: For more details on department policies, see the Theatre Handbook, located on the Theatre and Dance Department Homepage of the BSC website: <http://www.bsc.edu/academics/theatre-dance/index.htm>

Estimated Student Fees: None

PHILOSOPHY

PL*299*60

Philosophy and Film

Bill Myers

Prerequisites: None
Open To: First-Years and Sophomores
Grading System: Letter
Max Enrollment: 15
Meeting Times: M Tu W Th F we will meet three or four mornings (10:00 am – 12:00 pm) and 2 afternoons (1:00 pm – 4:00 pm) per week

In this project, we will explore the medium of film as a tool for philosophical exploration. Some potential films we might watch include *Bladerunner*, *Being There*, *Goodfellas*, *Crimes and Misdemeanors*, and *Do the Right Thing*. In order to give ourselves the necessary philosophical background, we will read a limited number of relevant philosophical texts on issues such as personal identity, personhood, ethics, and existentialism.

Everyone will write an 8-10-page paper that analyzes the philosophical issues in one film or takes one philosophical issue and explores its treatment over a number of films. Grades will be based on the paper, class participation, and short response papers. Class meeting times will vary, depending on the time required for weekly viewing. Generally, discussion time will be Monday-Thursday 10:00 am – 12:00 pm and viewing times Monday and/or Wednesday 1:00 pm – 4:00 pm.

Estimated Student Fees: None

PHYSICS

PH*299*61

Science and Pseudoscience

Mark Rupright

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th F 9:00 am – 12:00 pm

Do you know what they call “alternative” medicine that’s been proved to work? “Medicine”

– Tim Minchin

From UFOs and ghosts to homeopathy and power bracelets, pseudo-scientific beliefs seem to be as popular as ever. This project will introduce you to basic characteristics of scientific inquiry, and to techniques for distinguishing scientific from pseudo-scientific claims. Emphasis will be placed on logical and scientific reasoning, evidence versus anecdote, and the importance of skepticism in scientific progress. Example topics will include astrology, ESP, creationism, “quantum” nonsense, “alternative” medicine, and many more. Assignments will include daily reading, research, and homework activities, as well as an independent project that will result in an 8-10-page research paper and class presentation on a topic of your choice.

Estimated Student Fees: None

PH*299*62**The Science of Cooking****Duane Pontius**

Prerequisites: None
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 8
 Meeting Times: M Tu W Th 9:00 am – 3:00 pm

Why is bacon so delicious? How does that fresh baked loaf of bread have the perfect combination of crunchiness and chewiness? The secret is often the science used to cook them. In this project, students will learn the science behind basic cooking techniques, and then use those techniques to cook a variety of delicious dishes. Cooking topics will include the Maillard reaction, crystal formation, acid base chemistry, mechanisms of heat transfer, and the science of cleaning up. Food preservation techniques will include water-bath canning, pressure canning, and food dehydration. We will also screen food-related movies and documentaries to explore the social and cultural impact that food has on our lives. Students will be graded on weekly quizzes from textbook readings and class work as well as a final student-led cooking presentation. Lunch will be served most days.

Estimated Student Fees: \$200**PH*299*63****Solar and Fuel Cell Technology****Matthew W. Rhoades**

Prerequisites: Algebra Proficiency / MA 115
 Open To: All Students
 Grading System: Letter
 Max Enrollment: 14
 Meeting Times: M Tu W Th F 9:00 am – 12:00 pm

The Sun has the potential to power the Earth indefinitely, but we must first harness and store its energy. You will investigate what solar cells are and how they work. You will learn about different types of fuel cells for storing energy. You will get hands-on activities involving solar cells and hydrogen fuel cells. Grading will be based on attendance and active participation, daily homework assignments, weekly quizzes and lab reports, and a final presentation.

Estimated Student Fees: \$10 in out-of-pocket expenses**POLITICAL SCIENCE****PS*299*64****Exploring Ghana: History, Thought, Culture, and Politics****Vince Gawronski and Desireé Melonas**

Prerequisites: Instructor Consent
 Open To: Sophomores, Juniors, and Seniors
 Grading System: S/U
 Max Enrollment: 18
 Meeting Times: January 10, 11
 Travel Dates: January 12–31

After a series of on-campus orientation sessions over a three-day period at the beginning of the January E-Term, students will travel to Ghana where they will spend time living and traveling in and around the cities of Accra, Apaso, and Winneba engaging in various cultural and educational experiences. These experiences will range from visiting some of Ghana's

historic slave castles to spending time at Agbogbloshi, the world's largest digital waste dump, to meeting with professors and students of Ghana's local colleges and universities. This trip is not meant as a "study" of Ghana and Ghanaians, but is intended, instead, to understand and be a part the culture and life of a people as articulated in terms of their own, in ways they deem meaningful. Prior to travel, readings will be assigned in the fall and during the winter recess. In addition, at least 3 group meetings will be held in the 2018 fall term.

Estimated Student Fees: \$4400 (at 15 students)**PS*299*65****Clinton Jenkins****Music, Politics, and Society**

Prerequisites: None
 Open To: All Students
 Grading System: S/U
 Max Enrollment: 16
 Meeting Times: Tu W Th 9:00 am – 12:00 pm

This project explores the intertwined relationship between music, politics, and broader society. This project focuses on the relationship mostly in the context of America, although some attention will also be given to these relationships in a comparative context.

In addition to serious class discussion during seminar meeting times, students will listen to music and read about associated political and social phenomena outside of class. Course evaluations will be based on four, 2–3 page response papers in addition to a final research project of 10–15 pages.

Estimated Student Fees: None**PS*299*66****Pre-Law Internship****Fred Ashe**

Prerequisites: 3.3 GPA or Consent
 Open To: Juniors (or Seniors by Consent)
 Grading System: S/U
 Max Enrollment: 8
 Meeting Times: M Tu W Th F 9:00 am – 5:00 pm

The law office internship provides the pre-law student with the opportunity to observe and participate in the work of a law firm in the Birmingham area. It is intended for students who have minimal prior experience working in a law firm and want to learn more about the practice of law before making a decision to attend law school. In addition to working in a law firm, students are required to do extra readings and to write a series of reflection papers. Students will spend a minimum of 30 hours per week with their law firms and will meet three times during the month with the class and Professor Ashe. Evaluation will be based on papers, participation, and the assessment of the sponsoring law firm.

Note: Interested students must contact and meet with Dr. Ashe, the BSC pre-law advisor, before October 9, 2018, in order to be eligible for these internships. The meeting will discuss the expectations of the student and is necessary for the purposes of placing the student in an appropriate law firm.

Estimated Student Fees: None

PSYCHOLOGY

PY*299*67

The Psychology of Games

Kyle R. Kraemer

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 12
Meeting Times: M W F 9:30 am - 12:30 pm

This project explores how psychologists understand games, including the needs and motivations that relate to game-playing. We will look at current psychological answers to questions such as, "Why do people play games?", "What makes games fun?", and "Are games good or bad for us?". The project focuses on how games keep us involved and entertained through a variety of psychological phenomena including discussions of self-efficacy, self-determination theory, and flow. Students will participate in a variety of games under different motivational circumstances, and reflect on their experiences during the games through discussions and class assignments. Students will be required to complete readings and view related media in and out of class. Evaluation will be based on attendance, participation in class discussion, written assignments, quizzes/exams, and a 10-minute presentation of a final project, which will involve students implementing changes to a non-game task to make it more gamelike and increase participant enjoyment.

Estimated Student Fees: \$10

PY*299*68

The Science of Social Networks: Why "Happiness Is Contagious, You'll Never Date Your Ex's Current Partner's Ex and Your Vote Doesn't Count"

Jessica Allen

Prerequisites: PY 101 recommended but not required
Open To: All Students
Grading System: S/U
Max Enrollment: 10
Meeting Times: M W F 9:30 am - 1:00 pm

This project centers around the nonfiction book, *Connected* (Christakis & Fowler, 2009), which utilizes data from a national health study to empirically argue that our political decisions, friendships, romantic partners, and even our physical and mental health are shaped by our social networks. As a group we will explore how our social networks have shaped our own individual lives and review scientific evidence on the topic using two peer-reviewed journal articles per week provided by the instructor. Students will be responsible for identifying, reading, and summarizing other peer-reviewed and popular press articles each week to contribute to the class. Finally, students will engage in a Revisionist History-style project (i.e. a podcast-style webpage that includes a summary, references, links to additional content, images, etc...) and 20-minute presentation, modeled after the podcast by Malcolm Gladwell, focused on an area of our own lives or that of someone close to us. In addition to creating Social Network Revisionist History projects, students will also complete daily reflection journals (1-3 pages in length) based on prompts in response to readings from *Connected* and other sources. Students may be required to engage in networking activities throughout the term. Group meetings will consist of discussion, applications, videos, and guest speakers. Off-campus meetings and visits in the Birmingham area are likely. This project includes heavy out-of-class reading, writing,

and listening to audio (i.e. at least 2 podcasts per week that are 1-1.5 hours in length). Students will be graded on written and oral discussions of assigned readings, journal entries, and the Revisionist History project and presentation.

Estimated Student Fees: \$25 in out-of-pocket expense

PY*499*69

Senior Seminar: Research in Psychology I

Greta Valenti

Prerequisites: Successful Completion of PY 304; Senior Standing or Instructor Consent
Open To: Senior Psychology Majors
Grading System: Letter
Max Enrollment: 16
Meeting Times: M Tu W Th F 10:00 am - 12:00 pm

This project is the first part of a two-part senior capstone project, to be followed by PY 472 in Spring 2019. This E-Term project requires students to: critically read and discuss psychology journal articles, generate a new research question, complete a literature review, design a study method, create a data-analysis plan, complete a multi-page outline of a research proposal, and submit an application to the Institutional Review Board by January 31. Topics for research projects will come primarily from the research area of the professor. Listed meeting times will be supplemented by time spent reading and meeting with group members and your instructor outside of class. Project grades will reflect the quality of the written outline and IRB application, and attendance and participation at meetings in and outside of class.

Estimated Student Fees: None

RELIGION

RE*299*70

Internship in Religion, Community, and Social Change

Keely Sutton

Prerequisites: Students must work with the Dr. Sutton and Katy Smith, Assistant Director of Internships, to identify internship before Thanksgiving
Open To: Sophomores, Juniors, and Seniors
Grading System: S/U
Max Enrollment: 15
Meeting Times: TBD by employer

These internships will be of interest to anyone interested in exploring career paths and professional opportunities in religious, interfaith, community-development, non-profit, educational, or other related organizations.

Through in-depth work with a place of worship or other community organization, students will develop cultural competence, ethical leadership, and thoughtful community engagement. Requirements include 30 hours per week at the internship site, an on-campus meeting with the instructor on the first day of E-Term, and an on-campus debriefing session on the last day of E-Term. Evaluation will be based on a 10-page critical reflection paper, daily participation in an online discussion forum, and the assessment of the sponsoring organization. Readings supplied on Moodle should be incorporated into the reflection paper.

Estimated Student Fees: None

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SOCIOLOGY

SO*299*71

Homelessness in Birmingham and Alabama

Stephanie Hansard

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 16
Meeting Times: Tu W Th 9:00 am - 12:00 pm



This project will examine issues associated with homelessness in Birmingham and Alabama. In addition to readings, lectures, documentaries, and guest speakers, students will engage in direct action addressing homelessness. Class will meet on Tuesdays and Thursdays from 9:00 am until noon. Additional service work will take place outside of regular class meetings. On the nights of January 23 and 24, we will participate in the Point In Time Count - a census of persons living on the streets of Birmingham. We will read the book *At Home on the Streets: People, Poverty, and a Hidden Culture of Homelessness*. Students will journal about their experiences in the project. Each week, students will submit one journal entry for a letter grade (2-3 pages). Each student will also write a final reflection paper (8-10 pages) integrating assigned readings, service work, and class lecture and discussion.

Estimated Student Fees: Out-of-pocket expense related to personal transportation to service sites

SO*299*72

Sociology of Therapy and Service Animals

Meghan L. Mills

Prerequisites: None
Open To: All Students
Grading System: Letter
Max Enrollment: 12
Meeting Times: Tu W Th 12:30 pm - 3:30 pm and approximately 20 hours fieldwork outside of the classroom



Students will be introduced to sociology with an emphasis on the social treatment of health, particularly with regards to disability. By the end of the class, students will be able to differentiate between service, therapy, and emotional-support animals. They will also be able to critically analyze the Americans with Disability Act and its societal implications with regard to public access of service animals and their handlers. The project will apply a sociological perspective in critically examining visible vs. invisible disability and disability-based discrimination and stigma. In partnership with "Hand in Paw," a local non-profit organization aimed to improve the health and well-being of children and adults through animal-assisted therapy teams, the project will emphasize a social science research component. This is a rise3 service-learning course that requires students to complete 20 hours of fieldwork outside of the classroom. Letter grades are based on in-class participation, reflection papers, and the successful completion of research projects.

Estimated Student Fees: \$150

SPANISH

SN*299*73

E-Term in Ecuador

Barbara Domcekova and Laura Stultz

Prerequisites: None. Project is open to all students; no proficiency in Spanish is required.
Open To: All Students
Grading System: S/U
Max Enrollment: 20
Meeting Times: January 3 - 4
Travel Dates: January 5 - 24



This project is a three-week immersion in Spanish language and Ecuadorian culture, based in Cuenca, Ecuador. Participants in the project will engage in the intensive study of Spanish at the CEDEI Foundation. Upon arrival, students will be placed in class according to their language proficiency, from beginner's level to advanced, and will spend four hours each morning in Spanish classes taught by Ecuadorian professors. Afternoons and evenings will be dedicated to a series of excursions and cultural activities, such as a city tour, cooking classes, and museum and monument visits. Students will be staying with Ecuadorian families to further explore the local way of life. This E-Term will also include weekend excursions, such as visiting the indigenous village Saraguro, Parque Nacional El Cajas, and Ingapirca ruins. At the end of the program there will be an excursion to Puerto Lopez, a small fishing village on the coast, including a visit to Isla de la Plata to observe unique marine life.

Estimated Student Fees: \$5000

THEATRE

THA*299*74

THA*499*75

Theatre Performance Ensemble: Sunday In The Park With George Jeff Kensmoe, Matthew Mielke, Michael Flowers, and Lester Seigel

Prerequisites: Audition/Interview, Instructor Consent
Open To: All Students
Grading System: Letter
Max Enrollment: 40
Meeting Times: M Tu W Th F 1:00 pm - 6:00 pm

This project is designed to provide an ensemble of students the opportunity to produce the musical *Sunday in the Park with George*. The company will include approximately 40 students, serving as actors and production staff. Cast members, who will also do technical work, are admitted by audition/interview. Production staff members are also admitted by permission of the instructors through audition/interviews. Production opportunities include stage management, costume construction, properties, lighting, and set construction. November, December 2018 commitments: one meeting for the entire company and additional meetings for the cast. The company members will need to work at least 25 hours per week during January 2019 and as needed. Rehearsal and production work will continue past the end of E-Term 2019. Public performances of *Sunday in the Park with George* will take place February 21-24. Evaluation will be based on attendance and promptness to all calls and meetings, attitude, work ethic and

demeanor, outside preparation, and performance quality. For senior credit, students will be assigned significant production responsibilities and will produce a substantial paper evaluating the experience. NOTE: For more details on department policies, see the Theatre Handbook, located on the Theatre and Dance Department Homepage of the BSC website: <http://www.bsc.edu/academics/theatre-dance/index.htm>

Estimated Student Fees: None

URBAN ENVIRONMENTAL STUDIES

UES*299*76

Bullfrog Bend Revisited: Creating a Book from Interviews to Photographs to Publication

William Holt and Pamela Venz

Prerequisites:	None
Open To:	All Students
Grading System:	Letter
Max Enrollment:	16
Meeting Times:	M Tu W Th 10:00 am – 12:00 pm with additional times spent on site and conducting interviews

Note: Students have the option of enrolling in this project under either the AR or UES listing

Originally known as Bullfrog Bend, Turkey Creek Nature Preserve contains some of the most biologically diverse habitats in Alabama including endangered species. Using the 1978 publication Bullfrog Bend: Echoes from Turkey Creek in Jefferson County, Alabama as a starting point, this project will develop a new book chronicling the preserve's history, development, and place within local culture. Students interested in photography and graphic design will learn the mechanics of digital SLR cameras, the manipulation of graphics-design software programs, and will create the book's layout and imagery. Social science students will gain experience in ethnographic and archival research methods and write the book's copy. Students will be evaluated on participation as well as production of photos, layouts, and book copy.

Estimated Student Fees: None

Notes

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Photo Credits

Inside back cover:

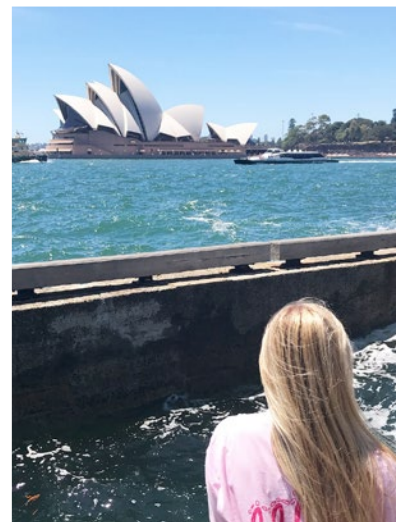
Left to right from top left

Rachel Barron, Classical and Renaissance Italy
Davis Thompson, Sundance Film Festival and the Independent Film Market
Christina Harmon, Service Learning: Education in Uganda
Brigitta Goshen, Service Learning in San Francisco
Amanda Bates, European Culture and Global Media
Christin Blackburn, The Natural Beauty and Art of Australia
Anthony Waller, Service Learning in San Francisco

Outside back cover:

Left to right from top

Christina Harmon, Service Learning: Education in Uganda
Rachel Barron, Classical and Renaissance Italy
Brigitta Goshen, Service Learning in San Francisco
Emily Kachelhofer, The Natural Beauty and Art of Australia





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