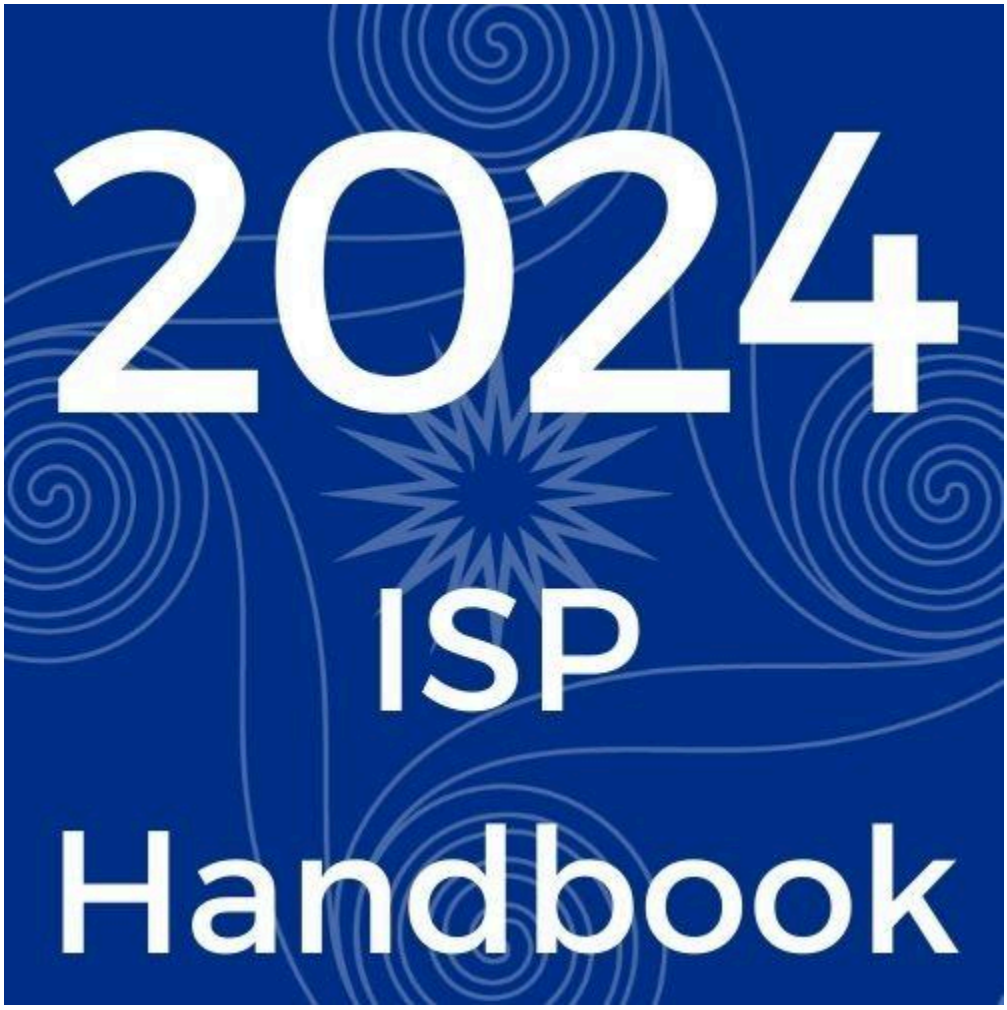
2024
ISP
Handbook

Welcome to your ISP!

ISPs (independent study projects) are a FUN and EXCITING element of the New College curriculum!

You GET to spend the month of January exploring an area of interest - all with the support of your faculty and New College community.

We encourage GROUP ISPs for first-year students and have many great options!

Are you a 2nd or 3rd year student wanting a group experience? We have additional options for you too! Have an idea you'd like to explore on your own (with faculty support)? Follow our guide in this handbook!

Not sure where to start? Check the offerings in the handbook!

New College of Florida
Independent Study Projects

January 2024

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THE INDEPENDENT STUDY PROJECT REQUIREMENT

The Educational Policy Committee has identified five basic educational objectives in the ISP requirement:

1. To train students to carry out independent research, to prepare them to plan and carry through an effective senior thesis;
2. To supplement the curriculum, to provide an opportunity to cover areas not usually available, particularly off-campus;
3. To provide an opportunity for non-traditional, innovative, experiential learning projects;
4. To encourage work-related experiences such as internships (see Section 6.23 Appendix 3: Internships in the Faculty Handbook);
5. Generally to provide an opportunity for intensive involvement with one subject, as a change of pace from the regular terms.

A student chooses a topic in consultation with a faculty member who agrees to become the ISP sponsor. The ISP Handbook and the ISP Workshop, held in October of each year, provide guidance to students as to the types of ISPs that faculty encourage. Projects may be carefully defined at the beginning, or left open-ended and exploratory. The content and demands should be roughly equivalent to that of a term-length tutorial. A full-time, four-week academic activity, the ISP is incompatible with full-time employment, a regular semester contract, or a second, simultaneous ISP. Three ISPs are required for graduation. A student may register for a fourth ISP, but does not need it for graduation.

Because the first ISP can be challenging for first-year students, some faculty members choose to create Group ISPs that take place on campus during the January Interterm. These Group ISPs provide more guidance and structure than individual ISPs and usually require regular meetings with the members of the group. Descriptions of Group ISPs organized before November are found in the front part of this booklet.

Registering for the January Interterm ISP

The process of registering for an ISP has two steps: Registering and paying for the ISP, and submitting an ISP Description Form**.**

Step I: If the student has not yet satisfactorily completed the 3 ISPs required for graduation, the Office of the Registrar will automatically register the student for the January Interterm along with the fall registration, so that the student will be billed to pay for the January Interterm along with the fall semester.
The student's faculty contract sponsor can approve withdrawal of that ISP registration; the student is responsible for seeking the sponsor's signature on an ISP Add/Drop Form to request this (deadline: December 1).
If a student is not already registered for a January ISP but intends to do one, he or she may register for it during fall registration or during the fall semester, and pay for it as an addition to fall tuition. Registration may take place electronically if completed during the period before classes start, or it may take place through the **ISP Add/Drop Form** submitted to the Office of the Registrar (deadline: December 1). **Students may not add a January ISP to their fall registration after the last day of fall classes.**

Step II: In addition to registering and paying for the ISP, the student must submit an ISP Description

Form signed by the project advisor and the fall contract sponsor. In order to complete the form, the student must articulate a title or topic for the ISP, a core bibliography, the form of the final project (e.g. critical essay, research paper, work of art, series of examinations, performance, etc.), and a description of the project including goals and procedures.

The Office of the Registrar will accept the ISP Description Form without penalty to the student until December 1 or the next business day. A late ISP Description form will be accepted by the Registrar with a late fee until the ISP Renegotiation Deadline, which is 5:00pm on the third day of the ISP period. The form must be submitted with signatures from the faculty contract sponsor and faculty ISP advisor. In exceptional circumstances the Division Chair may sign the ISP form, with the contract sponsor's approval. After the renegotiation deadline, the form will not be accepted. If the deadline is missed, the student forfeits payment for the ISP, and the ISP is recorded as Unsatisfactory.

Renegotiating the January Interterm ISP

ISPs may be renegotiated with respect to topic, scope, etc. at the discretion of the original ISP advisor by filing a revised ISP Description form with the Office of the Registrar. The renegotiation deadline for ISP proposals is at 5:00 p.m. on the third business day of the ISP period. Renegotiation of an ISP Description form that was submitted on time will not be assessed a late fee. If a student is registered for an ISP and fails to submit an Interterm ISP Description form to the Office of the Registrar by the renegotiation deadline, the student forfeits payment for the ISP, and the ISP is recorded on the student's permanent academic record as "Unsatisfactory." Changes to the topic and ISP advisor after the renegotiation deadline require a successful petition to the Provost.

Cancellation of the ISP

If a student is registered for an Interterm ISP but fails to turn in an ISP Description Form by the last day of the first week of the January Interterm period, then the Office of the Registrar records the ISP as canceled, and the student's ISP is recorded as Unsatisfactory.

ISP tuition and fees will be refunded to a student only in the following cases:

- The student officially withdraws from New College during the semester preceding the ISP.
- The student is granted an Emergency Leave of Absence during the semester preceding the ISP.
- The student is dismissed during the semester preceding the ISP.

If the student has Bright Futures Scholarship funding, ISP tuition and fees are subject to repayment. (New College would repay the State of Florida and the student would be liable for repaying New College.)

Off-campus Study ISP Payment

Students engaged in a January ISP off campus (but not with a host institution) pay tuition and fees to New College. If, however, a student enrolls in a host institution to complete an ISP, the student must submit a request for waiver of New College tuition and fees.

Deadlines for Completing ISPs

All work completed as part of the Interterm ISP is due no later than the last day of the Interterm period. After that date, the ISP will be considered incomplete or unsatisfactory. A summer ISP must be complete by the day before the first day of fall classes (or earlier, if specified by the host institution or faculty contract sponsor); the transcript must be received by the Office of the Registrar by the last day of fall classes. (Earlier deadlines for completion and transcript submission may be set by the contract

sponsor and/or the host institution.)

If a student has turned in an ISP and has received no acknowledgment of his or her completed work in the Student Evaluation System, the student should contact the ISP sponsor and request that the professor indicate "All Work Submitted" in the Student Evaluation System. Appeals of ISP terminations, and of ISPs that are deemed Unsatisfactory because they were turned in after the deadline for faculty to evaluate them, will be heard by the Student Academic Status Committee (SASC), which can waive termination in exceptional cases.

Deadlines for Faculty Evaluations of ISPs

A January ISP that has not been evaluated as Satisfactory in the Student Evaluation System by 5:00pm on the Wednesday of the eighteenth week after the beginning of the subsequent Spring Semester will be designated as Unsatisfactory. Summer work undertaken at another institution may, with the written consent of the ISP advisor, documented via a submitted Summer ISP Description form, be counted as an ISP. The expected completion date for a summer ISP is the beginning of the subsequent Fall Semester; the last day of classes of that Fall Semester is the deadline for the Office of the Registrar to receive the official transcript from the host institution.

New College
THE HONORS COLLEGE of Florida

Office of the Registrar
5800 Bay Shore Road (PMD-115)
Sarasota, FL 34243-2109
Phone: (941) 487-4230 Fax: (941) 487-4478

_____
Inter-Term Year

Independent Study Project Description

(See Academic Calendar for Deadline)

ISP Number
○ 1st ○ 3rd
○ 2nd ○ 4th

This document embodies planning toward core-learning goals, including communication skills, content knowledge, and critical and creative thinking skills.

Instructions: Check the appropriate boxes above and complete the information requested on this form. If more space is needed, attach additional pages. (To renegotiate an ISP, complete this form and print **"SUPERSEDES PREVIOUS FORM"** at the top.)

Name: _____ _____ **SID:** N _____
(Last) *(First)*

Expected Year of Graduation: _____ **Box No.:** _____

TOPIC OR TITLE OF ISP:

IS THIS AN INTERNSHIP? ○ **YES** ○ **NO**

CORE BIBLIOGRAPHY:

FORM OF FINAL PROJECT *(e.g. Critical Essay, Research Paper, Work of Art with/without Accompanying Discussion, Series of Examinations, etc.)*:

DESCRIPTION OF THE PROJECT *(Goals, Procedures, etc.)*:

OFF-CAMPUS? ○ **YES** ○ **NO**

Will your research include and/or involve: 1) human subjects; 2) identifying information (e.g., archival databases or surveys); and/or 3) vertebra animals (in a laboratory or in the wild)? _ Yes _ No
If "Yes" consult with your faculty advisor and/or contact ORPS at irb@ncf.edu to determine if appropriate training and/or research approval is necessary.

Project Sponsor: _____ **Signature:** _____ **Date:** _____

Academic Advisor: _____ **Signature:** _____ **Date:** _____

If this is your first ISP, and it will be off-campus, then signature approval from the Office of the Provost is required: **Signature:** _____ **Date:** _____
(Provost)

Student Signature: _____ **Date:** _____

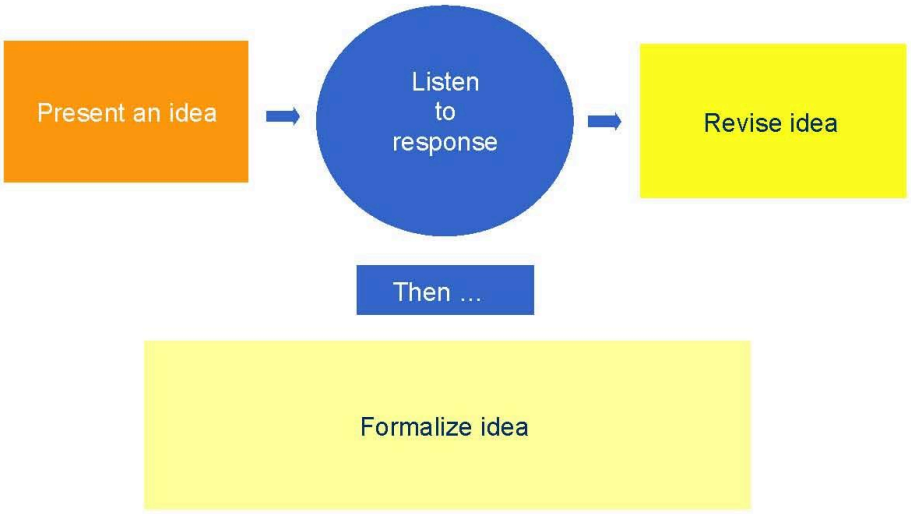
Revised: 08/26/2014

IMPORTANT DATES

Friday, December 1, 2023	**Electronic ISP Description Forms are due to the Office of the Registrar for January Interterm 2024.**
Wednesday, January 3, 2024	January Interterm begins.
Friday, January 5, 2024	Add/Drop Deadline *If a student fails to submit this form to the Office of the Registrar by 5:00 p.m. he or she will not receive credit for the ISP and will lose the fees paid for it.*
Friday, January 26, 2024	January 2023 Interterm ends. Last day to change a January 2024 Interterm ISP to a ***different*** project advisor. Consent of both the ***former*** and the ***new*** project advisors is required. Submit the revised ISP Description Form to the Registrar's Office with "SUPERSEDES PREVIOUS FORM" written across the top.
Wednesday, May 29, 2024	ISP Evaluation deadline. After this date, ISPs from the January interterm are automatically designated as Unsatisfactory.

Filling out the ISP Description Form

In order to find a sponsor for an ISP, you need to talk with faculty members. Some students get discouraged because they are not flexible enough in their approach. Faculty may see some promise in a topic, but may also recognize that it has fatal flaws. It is important to listen carefully to faculty feedback and respond to it in order to develop the topic for its greatest potential as an ISP project.



The ISP Description Form provides the template for formalizing the idea. It requires you to articulate a topic, provide a number of bibliographic references, describe what you are going to do, and then get signatures from your contract sponsor as well as the ISP Project sponsor.

Once you turn in the form, you will still continue developing the project. You may need to adjust your process to fit the realities of what you can do in four weeks. That is why being in contact with your ISP sponsor during January is important.

Developing a Research Project/Paper as an ISP Project

The simplest way to proceed (but not the best) in developing a research paper:

1. Choose a topic.
2. Locate sources of information on the topic.
3. Read through this material, taking notes and recording useful quotations.
4. Construct an outline from the categories of information you have gathered.
5. Following your outline and notes, write the sections of the paper, incorporating source material in appropriate sections.
6. Document references and add a bibliography (or list of works cited).
7. Check the paper over for errors or typos and turn it in.

Problems with the result of this method:

- The topic is too broad and unfocused; the paper will be too broad and unfocused.
- The writer does not pose a real question, take a real position, or write with a sense of purpose; again, the paper will be too broad and unfocused.
- The writer has no plan for regular consultation with faculty. Faculty can help at every stage.
- The body of the paper consists of clumps of information from sources, roughly sorted into categories.
- Sources may be inappropriate or out of date; students often need support in learning to evaluate sources (librarians and faculty members are good sources of feedback).
- The writer doesn't clearly distinguish his or her voice and viewpoint from those of cited authors, or he or she depends too heavily on these sources. The student needs to assert his or her own ideas above the experts, or in chorus with the experts, and this is hard to do and requires practice.
- The paper is disorganized, the most promising ideas buried in body paragraphs or raised only in the conclusion. Rethinking and redrafting is not part of the plan, and can lead to solutions for most of the problems listed here.

Some ways to eliminate these problems:

- Plan to meet regularly with your ISP Project Sponsor. Get their advice on bibliography, narrowing down the topic, moving through the process.
- Be willing to narrow down the initial topic. Your paper will end up being more like an encyclopedia entry than a research paper unless you are willing to rethink or modify the topical focus and develop a specific claim or thesis.
- Consult with a reference librarian about how to discern the quality of information you find and

how to use on-line databases owned by the library. Consult with a faculty member to get some of the names of people who are leading experts.

- Use an outline if it works for you, but recognize that people write in a variety of ways. You may wish to write from the first moment you start collecting information from the library, and think about a variety of ways to map the information that will inform the paper you construct. You may want to create non-linear representations of what you are thinking. Peers tutors, called Student Writing Assistants or SWAs, can be helpful. You can find them in the Writing Resource Center on the first floor of the library.

- Read your paper out loud, or share your paper with friends to see how they interpret your ideas. See if they get the message you intend to deliver. If they say, "this is really great," ask them what parts they like the most, what ideas they think are strongest. Force your reader to provide you useful feedback about your ideas.

- Talk with your project sponsor about appropriate style guides, and choose one. Many of them have helpful information about how to create a strong bibliography.

Completing an Internship as an ISP

The independent study period allows New College students the opportunity to work with an organization or internship provider to create non-traditional, innovative, experiential learning projects.

An internship is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships give students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths; and give employers the opportunity to guide and evaluate talent. (National Association of Colleges and Employers, NACE)

Creative collaboration between the internship provider and the student is essential. ISPs should be equivalent to the academic effort of a full semester internship. In terms of time commitment, this means that students should work 120 hours total during the 4 weeks or approximately 30 hours per week to earn an ISP.

The time commitment can be divided between an office and/or working remotely as best fits the needs of the internship provider and student. Students assume the initiative to develop a project in consultation with the internship provider and their ISP faculty sponsor. Faculty sponsorship is required.

You can meet with a career coach to learn more information and discuss your interests by scheduling an "Internships General Info" appointment on Handshake.

Some Examples of Local ISP Internship Sites:

Education Foundation of Sarasota County
Asolo Repertory Theatre
Selby Library
Economic Development Corporation of Sarasota
Ringling Museum
Historic Spanish Point
Realize Bradenton
Mote Research Institute/Mote Marine Aquarium
St. Stephen's Episcopal School
United Way Suncoast, Volunteer Income Tax Assistance (VITA)

Completing Micro-internships as an ISP:

Micro-internships are short-term, paid, professional projects from companies nationwide. Most are remote! Projects typically range anywhere from 5 to 40 hours a week with some lasting longer. Completing micro-internships as an ISP may be a great option to explore a variety of career paths, expand your professional connections, and build and demonstrate your skills. Students can create a free account to get started and read more here - https://info.parkerdewey.com/ncf.

Work with a CEO career coach to create high-quality application documents for your applications. Schedule an appointment on Handshake to get your resume and cover letter reviewed.

Internship Searching Tips:

The CEO career coaches can help you craft a strategic search plan to find internships that match your interests and goals. You can schedule an "Internship Searching" appointment on Handshake. Below are a few strategies that will help you get started.

1. Use Handshake to search for jobs and internships posted for NCF students and alumni (use the "Save Your Search" feature), upload your resume for recruiters to see, and search the Employers menu to research possible employers (use the "Follow" feature).

2. Utilize jobs boards like LinkedIn, Indeed, Google, and niche industry or professional association job boards to find opportunities that are posted online. You can save your search filters and create job alerts to get new postings sent to your email.

3. Develop lists of possible employers for your preferred geographic area and go to specific employer's websites to search for openings.
    a. Use What Can I Do with a New College AOC? website to identify industries that hire roles of interest - https://www.ncf.edu/ceo/whatcanidowithmyaoc/.
    b. Use Google to find specific employers (e.g., largest employers in Orlando, FL or libraries in Miami, FL).
    c. Outreach to employers that interest you even if they do not have any openings advertised.
4. Connect with NCF alumni and community members using LinkedIn (NCF alumni page) and the New College Mentorship Network (https://ncf.wisr.io/login/) to build relationships with professionals in your field of interest. Most opportunities are not advertised. Ask the CEO how to professionally connect with potential network contacts.

5. Keep a spreadsheet of applications you submit including the date you applied to stay organized. Set an alert/reminder to follow up on applications you submit after two weeks.

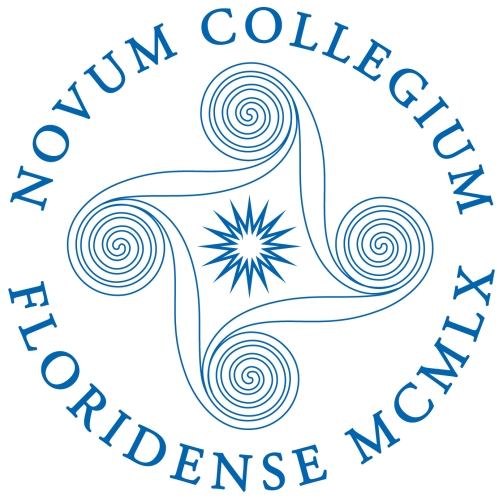
6. Use the Job & Internship Searching Checklist for more tips!

Register & Report Your ISP Internship:
Step 1: Once you have secured an internship, submit your experience in Handshake by clicking on Career Center and then Experiences to request an experience. Approval forms will be sent to both the internship site supervisor and faculty sponsor (in that order) from Handshake to their email.

Step 2: Register your internship on your contract using the e-ISP form and select internship as the objective. The CEO will need to approve your internship on your contract.

Internship Evaluations:
A midpoint and final evaluation will be sent to both the student and the internship site supervisor to complete midway and at the end of the ISP period. The evaluations will be automatically sent from Handshake to the emails listed on the Experience. The faculty sponsor will receive copies of these evaluations to assist with their narrative evaluation.

Read more about internship search strategies, step-by-step instructions for reporting in Handshake, and more! - https://www.ncf.edu/ceo/internships/



GROUP ISPS

Advanced Advocacy in Action (CRN 86361) SPACE AVAILABLE FOR STUDENTS

1st year appropriate (for those interested in pre-law/govt advocacy)

Shelli Freeland Eddie
Pre-Law Advisor, Adjunct

Office: LBR 147
Telephone: (941) 487-4693
Email: sfreelandeddie@ncf.edu
Classroom: CEO OFFICE – Classroom TBA
Class Dates/Times: January 3-26, 2024. Class will meet every Tuesday from 4-6 pm

A lawyer, as a member of the legal profession, is a representative of clients, an officer of the legal system, and a public citizen having special responsibility for the quality of justice. This ISP will seek to provide the student with an opportunity to practice appellate and/or trial advocacy as part of a competitive team, along with developing critical research skills related to policymaking and municipal oversight. It will also include an overview of the 2024 Florida legislative session will also occur with a view of proposed legislation that impacts our local community. A trip will be scheduled to a local city/county commission meeting during the ISP to view pending resolutions/ordinances of interest.

Mock Trial: Students choosing mock trial will have access to the case materials currently in use by the American Mock Trial Association. Using these materials, New College students will prepare for competition through trial simulations in competition with other New College students and teams from other institutions. The final project will be a mock trial presentation presided over by a current Sarasota Country trial judge or local attorneys. All students choosing mock trial will be encouraged to continue to put in practice what they have learned by representing New College as part of the New College Mock Trial Team as we enter regional competition this Spring.

Advanced Creative/Critical Persuasion Exercise: Students choosing this option will receive a briefing on a local community/governmental issue affecting Sarasota or Manatee County or a statewide issue with a local impact. Students will be required to present an oral argument on the issue, the causes, the impacts, and recommended solutions/action steps before members of the local nonprofit community foundations (e.g., local legislative representatives, Manatee and Sarasota Community Foundations; Charles and Marjorie Barancik Foundation; Gulf Coast Community Foundation; Manatee/Sarasota Chambers of Commerce, law enforcement officials, etc.)

This ISP is appropriate for first year students who have an interest in pre-law and government advocacy.

Art Preparator Workshop: Exhibition Preparation and Installation (CRN 86376) Full 12/4/23

Dan Bethune
Assistant in Humanities (Studio Technician)

Preferred method to be contacted:
Email: dbethune@ncf.edu
Office Hours: 10am - 3pm, Monday thru Friday and by appointment - CFA 111
dbethune@ncf.edu

Course Overview:
This group ISP is designed to aid in the development of one's skills as a fine arts preparator. This course considers various aspects of installing an art exhibition ranging from layout and design to the fabrication of frames and pedestals, and preparation of didactic material. All of this will culminate in the installation of the Semester Highlights exhibition. Students will gain hands-on skills in professional exhibition preparation (mat board, glass and acrylic cutting; design and fabrication of frames) as well as gallery preparation (repair and prep the wall space, layout, installation, and signage). Students will work through group and individual assignments and be present M-R, 10-3. Some work outside of regular meetings may be required. This ISP is first-year appropriate, however intermediate to advanced woodworking skills are preferred. Ideal for students with Art and Art History experience who are interested in developing practical skills related to professional art installation and preparation.

Expectations for satisfactory completion of an ISP:
(25%) DEDICATION AND PARTICIPATION: Students will be expected to work in the Sculpture Lab or gallery M-R (10-3). We will meet as a group 4 days per week. Students must also attend all workdays for installation of the exhibition and fulfilling assigned duties. Exhibit safe practices in the Sculpture Lab and Gallery.

(75%) CRAFTSMANSHIP: Students will complete all assignments with a high level of craft indicative of what might be expected in a museum or gallery setting. During ISP, students may create, re-create, and re-create as many times as needed to attain a high level of craftsmanship and professionalism.

Assessing Syngnathidae-Seagrass Decline (CRN 86362) Full 12/4/23

Open to all students, including first-year students

Samantha Levell
Visiting Assistant Professor of Fish Biology
https://slevell.wixsite.com/slevell

Preferred method to be contacted:
Email: slevell@ncf.edu
Office: HNS-E252

Description:
Seahorses and pipefish in the family Syngnathidae are quite unique fish. They have evolved a flattened body shape that allows them to move easily in small spaces. They have also evolved long snouts that allow them to suck small animals from the water column. Both of these features make them well-suited to live in coastal seagrass habitats. Because of many species' dependency on seagrass, they are at risk as seagrass declines. But we do not fully understand the factors in seagrass communities that syngnathids rely on. It is assumed that they use these habitats for food and shelter, but how do declines in seagrass affect them?
In this ISP, students will explore syngnathid morphology as they are associated with the characteristics of the seagrass habitats they are sampled in. These explorations will take place in the field via syngnathid and zooplankton sampling and seagrass bed characterization and assessment. The morphological analysis component of this ISP will take place in the laboratory using syngnathid samples obtained from estuaries around the state by the Florida Fish and Wildlife Conservation Commission. Students will learn a variety of laboratory and field techniques, as well as data analysis for the data they collect.

Prerequisite for this ISP:
An interest in fish, ecology, and/or local habitats. No prior field experience is required.
Expectations for satisfactory completion of this ISP:
Students are expected to reach me as soon as possible to express interest and discuss specific participation ideas.
Students are expected to work at least 30 hours per week on their project.
Students are expected to meet with me at least weekly to discuss their project progress.
Students are expected to maintain a field/lab journal detailing and reflecting on their project.
Final projects may include a combination of written and oral reports depending on their role in the ISP.
All work must be completed by the end of the ISP.

Birding New College (CRN 86363) SPACE AVAILABLE FOR STUDENTS

1st year appropriate

Melanie Hubbard
Visiting Assistant Professor of English

mhubbard@ncf.edu

Prerequisites: an interest in birds, a willingness to attend group bird outings and field trips, and ability to attend activities during the week (Mon through Fri, 9 am - 6 pm, field trips during week or weekend, starting earlier.)

Description: Explore the world of birds and birding on the New College campus and the Sarasota area! During this group ISP you will learn the basics of bird identification and behavior through observation, become conversant in good birding ethics and etiquette, and become able to identify common bird species that can be found on New College's campus and throughout Southwest Florida. You will practice these skills by attending 4 group birding outings or field trips per week (at least 2 hours each), participating in additional birding with a buddy outside of group outings, engaging in online discussion of select videos and short readings, and keeping a bird journal. In addition, you will develop and pursue an individual project (8-10 hours/week) which may be research-based, observation-based, analytical, or creative—or some mix of all of these—which you will present to the group (and possibly to the campus community) by the end of the ISP period. What are you curious about, or fascinated by? What are you excited to learn about? What would you like to try? What would you like to do or make?

This is a First-year Friendly ISP. First-year students will have priority enrollment for this ISP.

Requirements: This Group ISP is limited to 20 participants. You must be willing to get up early; you must live on or near campus, as this is an in-person offering with many real-time group and one-on-one meetings.

Please fill out this brief survey https://forms.gle/sHwaFcTmmWyvshmj9 to introduce yourself and describe what you might possibly be interested in working on for your individual project. You must receive confirmation from me before you submit your ISP form.

C# and Unity 3D for Game Development (CRN 86364) 1-2 spaces available

1st year appropriate (has pre-reqs)

Tania Roy
Associate Professor of Human Centered Learning

The learning objective for this ISP is to learn C# and get familiar with Unity 3D game engine through hands-on game development projects. Appropriate for 5-10 students.

Who should Take it?

- **If you are planning on taking *Introduction to Virtual Reality Systems Spring 2024, this ISP is a pre-req***
- Anyone who wants to learn C# and Unity 3D [this ISP may be counted towards a Language req for CS for details/confirmation contact troy@ncf.edu]
- **Pre-req for this ISP :-** Have complete Python or Java or have experience with 2D or 3D game development using C++ or unreal game engine. ***All other interested students should send me an email and I have made exceptions in the past for students who were planning to take OOP in Spring but are interested in VR .***

Workload

- We will cover Chapters 1-8 from *Learning C# by Developing Games with Unity 2020: 5th Edition by Harrison Ferrone* and a final project which will fold in Assignment 1 for the VR course
- If you are not taking the VR class, then an appropriate final project will be created for you which will be due by the 2nd week of Spring 2024

Time Commitment

- If multiple students sign up, groups of 2-3 will be created where you will meet via *in-person* every other week day for an 1.5 hrs (1.5*3= 4.5 hrs) to discuss progress and help each other troubleshoot
- Each week you will meet with me for 30 mins to discuss progress and homework every week
- Expect to spend at least 6 hrs every day on this ISP (the more comfortable you get with Unity and C# the less time it will take)
- Semi-self paced with Weekly Learning outcomes and assignments via Canvas

What do you need

- A computer which is able to Unity 3D and check for Unity 2020 version
- If you are on campus you can get access to development machines in the library and CS-reading room (1 windows laptop and a Mac desktop is available in the CS reading room for all students)
- Text book

Contact: If you are interested in this ISP please complete the google form by **Nov 15th** : Prof. Roy will provide you with the CRN and details on what to put in the ISP form.

Content Creation and Virtual Exhibitions (CRN 86365) FULL

1st year appropriate

Frederick Pirone
Visiting Assistant Professor of Anthropology
Contact: FPirone@ncf.edu

Prerequisites: Have an interest in visual technologies and modeling, be willing to be fully immersed in the group ISP, be willing to attend activities during the week and possible weekends including working on various aspects of the project that require involvement outside normal business hours of operation, and must submit a personal statement of interest that includes stating why you wish to be involved with this group ISP.

Description: The objective of this group ISP is to explore modeling, digitization, and creating virtual exhibitions and content using visual technologies. Specifically, students will gain practical experience in digitizing photographs and documents, photogrammetry and 3D scanning. The use of these tools is becoming the norm in archaeological fieldwork and research, cultural heritage management, and museum practices and exhibitions. They also have value and use in a wide range of applications associated with business, gaming, content creation, documentary and film, scientific modeling, and environmental studies, just to name a few other areas of interest. The value of these methods has no limits in application. Students will work on creating digital content using these methods, and then decide the best approach to combine the digitized material into a cohesive narrative/collection that can be exhibited within a virtual environment, incorporated into physical exhibition spaces, and/or utilized in other mediums that are made accessible for public education and consumption. We will be learning how to use basic cameras in photogrammetry and 3D scanners.

Requirements: This group ISP is limited to 10 students and will only take place if a minimum of five students commit to joining the group ISP by December 8th. You must be willing, dedicated and committed to taking a project from start to finish. This means you must have your final deliverable ready for exhibition by the end of the ISP period. You must have the patience to handle setbacks, engage in trial-and-error problem solving, and deal with challenges associated with learning new technologies and figuring out best practices in applying these technologies to accomplish specific objectives and goals. You must also be process driven and flexible to let the process help shape your final outcomes. This ISP will require a commitment to regularly working on your specific digitization project, doing background research, learning the equipment and methods, and regular in person group and individual meetings and discussions. We will work as an entire group and within smaller groups when necessary.

Deliverable/Goal: Creating a cohesive collection of digital content that tells a story.

Crossword Puzzles: How to do them and what we can learn from them (CRN 86366) FULL

1st year appropriate

Barbara Feldman
Professor of Sociology

Contact: bfeldman@ncf.edu

Prerequisites: curiosity, a pencil, ability to meet for at least two hours four times 10am- 12pm week. No experience necessary. Occasionally longer for special events

Description: Explore the wonder of crossword puzzling. Experience the triumphant feeling of completing a puzzle - filling in the final square! During this group ISP you will learn how to do crossword puzzles by learning how to interpret clues, recognize patterns and problem solve. We will meet in the morning (coffee optional) and talk about and solve puzzles. You will learn about the history of crossword puzzles and why it matters who creates them. Through books, articles and movies we will collectively share the joy and connections formed by puzzling together. In the end you will be able to call yourself a cruciverbalist!

First-year students have priority enrollment for this ISP.

Data Science in a Nutshell (and Why It could be a Game-Changer For You) (CRN 86373) SPACE AVAILABLE FOR STUDENTS

**Open to all Students*

Tiago Perez
Assistant Professor of Data Science

Email: tperez@ncf.edu

Data science is a popular and trending field and data scientists are in high demand (and get well paid, too). But what exactly does a data scientist do? Who can become a data scientist? What does it take to become a data scientist?

This group ISP is more than a data science bootcamp, it is intended to give you an introduction to the field and it might very well send you on a new career path you never considered. You will have ample opportunity to learn essential data science skills and gain hands-on experience in just 4 weeks, covering various aspects of the data science field. See why thousands of students with varied backgrounds are either entering, switching to or incorporating data science in their degrees.

In this group ISP, students will consider the role of the data scientist, be aware of ethical implications of data science, have an overview of several machine learning algorithms, tools and frameworks used in the real-world, run algorithms on real-world data and extract meaningful information from what would be otherwise an incomprehensible deluge of data.

Additionally, students will learn about the various opportunities and companies that are utilizing data science today, and what the prospects of data science into the future are. This ISP is open to all students, and requires no prerequisites.

Expectations for satisfactory completion of this ISP:

- Students are expected to attend each weekly session for the duration of the ISP.
- Students are expected to turn in one assignment per week. More frequent communication and meetings can also be expected, depending on the nature of the assignments.
- Students are expected to use a personal laptop or computer.
- The expected workload for the ISP is about 20hrs/week/student.
- Students are expected to turn in a final assessment/essay on their learning in this ISP, addressing concepts, new knowledge and skills they have acquired.
- All work must be completed by the end of ISP.

Ecuador Program ISP (CRN 86375) CLOSED

John L. Clark
Adjunct Assistant Professor

Preferred contact:
Email: johclark@ncf.edu
Office: Heiser North Side 0117

I am only on campus during Wednesdays, but I will meet with students on other days of the week. Students are encouraged to contact me via email to arrange for a meeting.

Expectations for satisfactory completion of an ISP:
The 2024 New College in Ecuador program is a field-based research expedition to the Ecuadorian rainforest. Students will develop skills in collections-based research by documenting the flora from a cloud forest on the eastern slopes of the Ecuadorian Andes. Our research will result in a 0.25-hectare permanent plot that will facilitate long-term monitoring of tree diversity. We will also generate museum-quality collections for ongoing biodiversity studies. These specimens will be integrated into museum collections at the Smithsonian Institution, New York Botanical Garden, Marie Selby Botanical Gardens, Missouri Botanical Garden, Universidad Estatal Amazónica, and other herbaria.

There are no prerequisites, but the desire to learn and use Spanish, to spend a large portion of the day in physical activity, and to enjoy field biology and nature are essential. The ideal group size is between 10 and 15 students; the trip will be appropriate for students of any class. Long-term deliverables and post-trip experiences (e.g., publications & presentations) are a goal of this program. Students will be encouraged to continue their learning in biodiversity studies through ongoing internships and research experiences at Marie Selby Botanical Gardens, where Clark is employed as a research botanist.

Fundamentals of 2D Game Development (CRN 86367) Full 12/4/23

1st year appropriate

Daniel Page
Visiting Assistant Professor of Computer Science
Contact: dpage@ncf.edu.

We explore fundamentals concepts in 2D game development and programming. We will use the GameMaker engine and the Game Maker Language (GML) as the means to explore concepts in game development, basic game design, computer graphics, and 2D game engine development. No experience with GML or GameMaker is expected.

By the end of the ISP, you will develop a basic computer game based on your interests, within the scope of weekly requirements. You will be assessed on your ability to incorporate key game development elements each week into your project, and completing weekly activities/objectives. Emphasis is placed on the development of a smaller game and its game engine, not delivery of a larger, final product.

GameMaker is a popular game engine and integrated development environment for the development of 2D games. Examples of video games made with GameMaker: https://gamemaker.io/en/showcase

Who should take it? (Appropriate for 5-10 students)

- First-year friendly opportunity. It is expected a prospective student has completed an introductory programming class. Exceptional, hardworking students without this background that are interested in game development are also welcome, you may contact Prof. Page at dpage@ncf.edu to discuss whether this ISP is suitable for you.
- Students with more advanced backgrounds are welcome as well, but the expectation for outcomes will be higher than those with no experience; all students will participate in the same weekly group activities/objectives, and Prof. Page will help guide with more advanced components of GameMaker.
- Independent learner, that is open to experiment with multimedia to develop a game project.
- Anyone interested in learning GameMaker and GML.

Workload

- Students will develop their own game projects individually or in pairs.*
- Each week a set of key topics will be covered with a lecture together, you will be expected to learn as you develop your project in line with weekly objectives in line with the week's topics. Each weekly group meeting will involve tasks/learning objectives.
- Reviewing tutorials and materials provided in weekly meetings and incorporating those elements into your project, based on your interests. Your project's scope will be structured around weekly objectives.
- All students will be expected to program core aspects of their project using GML.

Time Commitment

- There will be scheduled weekly meetings that are 1-2 hours long with all students in the group ISP for a lecture/tutorial and group discussion/activity. Weekly learning outcomes/activities will be outlined and assigned, to help pace/structure your ISP.

- Each week you will meet with the professor's office for 30 minutes for progress updates and consultation.
- You will spend at least 5-6 hours each week day on your ISP.
- If multiple students sign up, groups of 2-3 will be created where you will be expected to organise and meet in-person every other week day for 1.5 hours (1.5*3 = 4.5 hours) to discuss progress and help each other work through issues.

What do you need?

- A computer that supports use of GameMaker (https://gamemaker.io/), it is a free program to use for our purposes.
- Should you wish to export your project to Desktop, GameMaker offers a monthly subscription of $5 USD to export. This is not required for this ISP, but if you want to share your work with your friends; there are also less flexible but free options to export your work too.

Resources:

- Tutorials on GameMaker and game programming: https://gamemaker.io/en/tutorials
- Manual for GameMaker: https://manual.yoyogames.com/

*Exceptions will be made, if suitable. It is expected that students in a group equally contribute to programming in their project and directly work together (one student should not be doing all the programming). Students in groups will have to divide work amongst each other to integrate their projects, your professor will discuss with you how you may go about this.

Investing 101 (CRN 86442)

Instructor: Clay Keeley FULL (12/14)

Basic Investment Principles. Portfolio Construction and Investment Advisement

Areas covered:
- Equity, Debt and Financial markets
- Investment Diversification
- The Efficient Frontier and Investment Theory
- Investment Portfolio Construction
- The Risk/Reward inherent nature of investing

Thirty years from now will you be a multi-millionaire? A larger question: is it important to you to have wealth in the future? Is investing a science or is it an art or is it both? Isn't the stock market a casino and investing just gambling? If you are 20 years old, can you turn an $8000 investment today into $1,000,000 by the time you are 50 without taking substantial risk?

This group ISP will cover basic understanding of investment concepts and definitions. It will touch on basic elements of diversification of investment financial assets and investment portfolio construction, outline and differentiate the various financial investment products available in the market. It will also touch on the art of investing assessing risk and reward by the application of critical thinking to long term objectives. It will also act as a very brief introduction to the investment advisory field and client communication.

Expectations for satisfactory completion of this ISP
- A clear understanding of basic investing in financial assets.
- Understanding of terms and definitions associated with investment assets.
- The importance of diversification and building long term wealth.
- Construct a $1,000,000 investment portfolio for a hypothetical client.
- Present to a client a portfolio you built and why it is the optimum one for that client.
- Have a personal investment philosophy.

Students are expected to attend each weekly session for the duration of the ISP. This is a brick-by-brick learning process. It's critical to attend each session. There will be a written take home test/lesson of terms and concepts that will be reviewed at the start of each weekly session.

This ISP is open to all students, and requires no prerequisites.

For questions, please email both Clay Keeley and David Harvey at ckeeleyrun@gmail.com and dharvey@ncf.edu

Learn R, Teach R (CRN 86368) Full 12/4/23

1st year appropriate

Melissa Crow
Instructor of Statistics

Email: mcrow@ncf.edu

Description:
R is a powerful and versatile language for statistical analysis and data science. With R, students can explore data, implement statistical models, organize research, and even publish documents or web apps. In the past, students at New College have used R on a variety of projects ranging from analyzing the works of Jane Austen to creating interactive maps of global conflicts.

There are many online books and tutorials to help students learn R at all levels, from beginning to advanced. However, the best way to learn R is to use R—and then to teach it. This ISP will allow students to customize their goals for learning R using a variety of online texts and readings. Students will demonstrate understanding of R through real data analysis projects on topics of their choosing, and then will help create short interactive tutorials to teach others the skills and tips they have learned.

Pre-requisites:
No coding experience or knowledge of R is required. Students of all levels of experience with R, from complete beginner to advanced, are welcome. Some knowledge of statistics or data is helpful (e.g. the topics in Dealing with Data 1 or Intro Stat). First years welcome. This ISP or an equivalent R ISP is recommended for students taking Dealing with Data 2 in the spring semester. Students who are interested or who have questions should email mcrow@ncf.edu.

Modular Production Studio Design (CRN 86382) Full 12/4/23

Ashkan Tabatabaie
Visiting Assistant Professor of Music

Email: afakhrtabatabaie@ncf.edu

No prerequisites. In this ISP, students will design small media/music production spaces using our underutilized practice rooms and electronic music studio. I aspire to have these rooms interconnected and modular so that students can have jamming sessions, while being in different rooms, and be able to record and produce their performances. This modular feature enables each room to function independently or in concert with other rooms. Due to time constraints, this aspiration may or may not be achieved during this ISP period, but it could be reserved as a project topic for a later time.

At the end of this ISP, students will learn about recording and post-production technologies, tools, and concepts through multiple hands-on projects. This ISP would give students the opportunity to design and build spaces that they and their peers will be using themselves. Students would also learn about budgeting, equipment purchase, drafting space policy, and coming up with efficient systems to maintain their spaces in a collaborative working environment. Students may also go on a field trip to nearby studios to learn about their spaces as they work on designing theirs.

Performance Practicum: Almost, Maine **Full 12/4/23**

1st year appropriate

Performance ISP (CRN 86369):

Nova Myhill
Professor of English & Theater and Performance Studies
nmyhill@ncf.edu

Hesam Sharifian
Visiting Assistant Professor of Theater and Performance Studies
hsharifian@ncf.edu

Technical Theater ISP (CRN 86370):FULL

Tim O'Donnell
Director of Theatrical Production for the BBT
todonnell@ncf.edu

This ISP is a full production of *Almost, Maine*, a contemporary play by John Cariani. Four student directors will direct the production; Tim O'Donnell will oversee technical production. The production will rehearse over the full ISP and performances will take place February 1-4; rehearsal commitment is 15-20 hrs/week. Actors and technicians at all levels of experience are welcome—there will be something fun and interesting for you to do! Students interested in acting in the show should plan to audition on November 8 (callbacks, November 9) ; students interested in technical responsibilities should contact Tim O'Donnell to discuss interests and possibilities.

About the show:

Welcome to Almost, Maine, a place that's so far north, it's almost not in the United States. It's almost in Canada. And it's not quite a town, because its residents never got around to getting organized. So it almost doesn't exist. One cold, clear, winter night, as the northern lights hover in the star-filled sky above, the residents of Almost, Maine, find themselves falling in and out of love in unexpected and hilarious ways. Knees are bruised. Hearts are broken. But the bruises heal, and the hearts mend—almost—in this delightful midwinter night's dream. (DPS Description).

The play consists of nine two-character scenes exploring love--new, old, lost, and possible. There are a total of 19 roles; the play can be performed by any number of actors from 4-19, so there are a lot of parts and a lot of possibilities.

Auditions (Inside BBT in Ham Center):

Wednesday November 8, 6:30-9 pm - General Auditions
Thursday November 9 6:30-9 pm - Callbacks if Necessary
Please prepare a monologue of your choice or use one from the play (suggested monologues available in audition packet or at auditions).
Please contact Nova Myhill, Hesam Sharifian, or Tim O'Donnell with any questions.

Rehearsals:

Through the entire ISP term, 15-20 hrs/week. There will be a table read in early December and actors are expected to memorize their lines over winter break.

Rhetoric: Humor Institute (CRN 86443)

Instructor: Les McCurdy SPACE AVAILABLE

Come add a little humor to your life by learning the art of stand-up comedy taught by a professional headline comedian, Les McCurdy of McCurdy's Comedy Theatre and Humor Institute. Les has been headlining shows and instructing professionals and celebrities on the art and structure of stand-up performances for over two decades.

This course is an immersion program offering 12 hours of instruction on stand-up comedy writing and performance, culminating in each student writing and performing their own 5-minute stand-up comedy routine.

Students are expected to attend each weekly session for the duration of the class schedule.

This ISP is open to all students.

For questions, please email both Les McCurdy and David Harvey at les@mccurdyscomedy.com and dharvey@ncf.edu

Shakespearean Tragedy: An Introduction (CRN 86398) SPACE AVAILABLE

Instructor: Andrew Doyle

Prerequisites: Some advance reading will be expected

Interested students should email: andrewricharddoyle@hotmail.com.

Description: It has been precisely four hundred years since the publication of Shakespeare's first folio, a document that preserved many key texts which would have otherwise been lost. The editors of the folio categorized the plays as 'histories', 'comedies' and 'tragedies', although such divisions are an over-simplification of Shakespeare's craft. One of the reasons that he has never been better as a playwright is his capacity for innovation. Where we might expect poetic justice, we find moral ambiguity. Where we might expect the presence of evil to manifest as a consequence of sin, we find Shakespearean tragic heroes beset by external forces that work against their natures. Shakespeare's tragedies, particularly those written late in his career, represent the heights of his achievement, not least his capacity for psychological complexity in his characterisation. In this ISP, we will cover the key tragedies from the Shakespeare canon through a keen focus on the texts rather than through the lens of fashionable theorizing. You will be expected to attend a series of lectures and seminars, and produce one extended essay on one of the plays covered in the course.

For questions, please email both Andrew Doyle and David Harvey at

andrewricharddoyle@hotmail.com and dharvey@ncf.edu

Socio-Ecological Exploration of the Sarasota Bay Watershed via Adventure Sports (CRN 86371)FULL

Open to all students

Jose Soto
Visiting Assistant Professor of Biology & Ecology

Tyler Fortune
Director of Waterfront & Campus Recreation

Emails: jsotoshoender@ncf.edu / tfortune@ncf.edu

ISP description

This ISP will take students from the upland forest to the Gulf of Mexico as you research and explore the social and ecological dimensions of the different ecosystems of the Sarasota Bay watershed. Students will make scientific observations of the biological communities of each ecosystem. Students will be able to compare their observations on campus to sites off campus and gain a detailed understanding of representative species, ecological processes, human interactions, and characteristics of habitats such as pine flatwood forests, red maple swamps, fresh water rivers, mangrove swamps, beaches and bay ecosystems surrounding the Manasota area. Students will also gain skills in kayaking rivers and sailing the bay with equipment from the New College Waterfront Program, and witness addhuman interactions with wild spaces in our local area. Utilizing the campus resources provided by the Waterfront Program, such as sailing and kayaking, students will create relationships with each other by the shared experiences. Learning new skills such as sailing fosters teamwork and collaboration to solve problems in the moment. Students will work in teams to describe the biological communities of the ecosystems we visit and their interactions with humans. The exploration of watersheds will engage students both on and off campus. By getting off the paths, students will see the "wild side" of campus via walking, kayaking and sailing Sarasota Bay. The change in perspective will bring a new understanding and appreciation for the species with whom we coexist on campus.

Sports Analytics: Importance of Probability-Based Thinking in Sports (CRN 86372)FULL

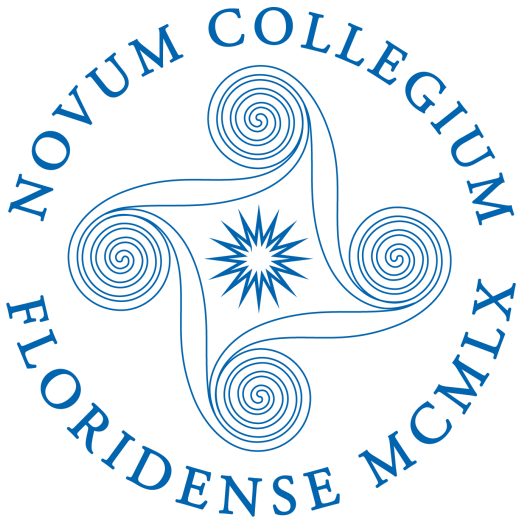
1st year appropriate

Andrey Skripnikov
Assistant Professor of Statistics

Prerequisites: No hard prerequisites, but some prior programming experience could be extremely helpful.

Description: The field of sports analytics has emerged over the recent decades and plays a pivotal role in a wide array of professional and college sports. Do we go for it on the 4th down in football? Should we abandon mid-range jump shot in basketball? What's the value of stealing bases in baseball? Although analytics can't provide a back-and-white answer to these questions, understanding statistics and probability can immensely inform one's in-game decision-making and strategy. In this ISP, we will learn the fundamentals of probability-based thinking and how it applies across the sports landscape. We will also use such resources as SCORE network (https://scorenetwork.org/) for learning activities, and sports-reference.com for readily available data. The ISP will predominantly have group assignments, including the final project on the sports application of your choosing, with the exception of individual study guide that each student is expected to write based on the main concepts introduced during lectures and various assignments. *Note that the first week will have to be remote, but from 2nd week onward the ISP will be conducted in the regular in-person format.*

Contact: Interested students should contact Professor Andrey Skripnikov at askripnikov@ncf.edu



HUMANITIES

Kim Anderson
Professor of Art

Preferred method to be contacted:
Email: kanderson@ncf.edu
Office: CFA 502

Areas of interest within discipline:
- Painting (all media)
- Drawing (all media)
- Printmaking (intaglio, screen printing, block printing)
- Animation (handmade and digital)

Expectations for satisfactory completion of an ISP:
Criteria for a successful ISP project will be determined by individual project parameters. Students should submit a written/visual proposal prior to the ISP deadline for priority consideration. Students are expected to conduct a minimum of 30 hours per week of studio engagement and research. Students will outline goals and expectations at the beginning of the project, followed up by descriptive weekly project reports, and culminating in a thoroughly developed studio project and supporting artist statement. Written analysis will be considered in evaluating the completed project and studio work should reflect a dedicated commitment. Periodically scheduled meetings are required as well as a final peer group critique of completed work held at the end of ISP. Students are encouraged to have comprehensive technical knowledge of all media used for the project.

Katherine Brion
Associate Professor of Art History and Museum Studies

Preferred method to be contacted:
E-mail: kbrion@ncf.edu
Office: ACE 110

Areas of interest within discipline:

- Art and Visual Culture of the Modern and Contemporary Period (specialized in 19th and early 20th-Century Europe), particularly painting, printmaking, photography, the decorative arts and design.
- The history of art and aesthetic education, particularly those directed at popular audiences, as well as the broader role of art and visual culture in education (with a focus on the modern period).
- Representations of "difference," especially in regards to race, ethnicity, and gender, as well as cross-cultural contact in colonial contexts.
- Art, politics, and propaganda.
- Museums, especially art museums.
- Public art, as well as monuments and memorials.

Areas of interest outside discipline:

- French/Francophone language, literature, and culture.

Expectations for satisfactory completion of an ISP:

- Regular weekly meetings (or the equivalent).
- Project must be a full-time commitment.
- Format depends on the project.
- Completion of all work by the end of ISP (i.e. before the start of the Spring semester).

Ryan Buyssens
Associate Professor of Art

Preferred method to be contacted:
Email: rbuyssens@ncf.edu
Office: CFA 102 (By Appointment)

Areas of interest within discipline:
- Sculpture
- Interactive Installation
- Filmmaking
- Animation
- 3D Printing
- Digital Fabrication
- Mechatronics
- Physical Computing
- Human-Computer Interaction
- Robotics
- Kinematics

Areas of interest outside discipline:
- Bicycle Frame Building
- Flying machines

Expectations for satisfactory completion of an ISP:
Students should submit a written/visual proposal prior to ISP deadline for priority consideration. The ISP proposal should include an outline of goals, a timeline, and a project statement/description. The following parameters should be considered:
- A minimum of 30 hours per week should be spent on research and studio/production.
- Weekly project reports must be kept.
- Regular meetings required.
- Goals outlined in proposal must be met (final work completed, documented with written statement).

Malena Carrasco
Professor of Art History

Preferred method to be contacted:
E-mail: carrasco@ncf.edu
Office: ACE 320

Areas of interest within discipline:

- Art & Architecture from Classical Antiquity through the Baroque (17th Century)
- Methodology and Historiography of Art History.
- Individual Artists and Genres (narrative, landscape, portrait, still life)
- Travel to Art Museums: U.S. and Europe

Expectations for satisfactory completion of an ISP:

- Regular meetings, minimum once per week (contact via Zoom or email, if off campus).
- Full-time engagement
- Format is negotiable (travel journal, lecture, or analytical/ research paper)
- Completion of project by the start of Spring semester.

Maribeth Clark
Professor of Music

Preferred method to be contacted:
Email: mclark@ncf.edu
Office: ACE 131

Areas of interest within discipline: opera, nineteenth-century French ballet, American studies, the environment as heard, sound studies, American music, English country dance, American contra dance, birdsong, whistling, research using digitized US newspapers.

Areas of interest outside discipline: Information literacy, Florida, leadership and public service, intergroup dialogue

Expectations for satisfactory completion of an ISP: Something on paper must be shared with me by the last day of ISP or it is unsatisfactory. I do not give incompletes on ISPs unless extenuating circumstances, such as natural disaster, personal or family illness, or other extraneous circumstances interfere with the student's ability to complete the project by the last day of the period.

Mark Dancigers
Visiting Assistant Professor of Music

Preferred method of contact:
Email: mdancigers@ncf.edu
Office: ACE 305
Phone: 487-4620

Areas of interest within discipline

- Music Composition
- Music Theory and Analysis
- Music Performance

Expectations for satisfactory completion of an ISP

- Students must submit their proposal including a project statement outlining the type and amount of work, the number of pieces to complete (if relevant) and a preliminary bibliography by the ISP deadline. All students working on creative projects are expected to also develop a listening list corresponding to their concepts for original work.
- Students must complete their ISP within the formal ISP period.
- Students are expected to work approximately 30 hours per week on their project.
- Weekly meetings are required where evidence of progress is reviewed.

Expectations for satisfactory completion of ISP:

All agreed upon work must be completed by the last day of ISP.

Aron Edidin
Professor of Philosophy

Preferred method to be contacted:
(email is best)
E-mail: edidin@ncf.edu
Phone: 487-4248
Office: ACE 234

Areas of interest within discipline:

- Among others: extended work with topics students started working on in courses or tutorials.
- Exploratory readings in areas that are new to the student (works best for experienced philosophy students).
- Topics in logic, including puzzles and paradoxes.

Areas of interest outside of discipline:

- History of musical performance or musical instruments.
- Theatrical production (history, interpretive issues, current trends, actual performances).
- Other topics that involve thinking about performing arts, including music and theater.

Expectations for satisfactory completion of an ISP:

- Careful planning of what you'll be doing from day to day and week to week during the month is crucial to successful ISPs. Therefore, I prefer projects that are organized around the process that will occupy the month rather than just the product that will be submitted at the end. The day-to-day and week-to-week plan should also ensure (and produce evidence of) full-time engagement with the project during the ISP period.
- *Because of the importance of careful planning, students who want to do ISPs with me should contact me **soon**, so we have plenty of time for the planning process!*
- I am open to group ISPs and encourage projects that include regular contact with other students whether they are part of a group project or not. (For example, I think it is a good idea to include regular discussion of your project with other students as a planned part of the process.)

April Flakne
Associate Professor of Philosophy

Preferred method to be contacted:
E-mail: flakne@ncf.edu

Areas of interest within discipline:

- Existentialism
- Phenomenology
- Ethics
- Greek Thought
- Nineteenth Century Philosophy
- Social-Political Philosophy
- Contemporary European Philosophy

Areas of interest outside discipline:

- Dance
- Literature
- Film

Expectations for satisfactory completion of an ISP:

Students should come with a well thought out reading schedule/plan. Weekly response papers to individual readings via e-mail/blog/canvas. Projects ordinarily culminate in a 12-15-page paper; an annotated bibliography; or a creative project.

Alexandria Griffin
Visiting Assistant Professor of Religion

Preferred method to be contacted:
Email: algriffin@ncf.edu

Areas of interest within discipline:

- Catholicism
- African American religions
- Religion and race in America
- New religious movements in America
- World Christianities
- LGBTQIA+ identities and experiences in religion
- Mormonism

Areas of interest outside of discipline:

- Popular culture
- Fandom and fan cultures
- Baseball/sports history
- US legal system/the Supreme Court
- Disability studies

Expectations for satisfactory completion of ISP:

- Regular meetings with me to discuss readings
- Completion of a research-intensive project, open in form (paper, film, website, comic book, photograph portfolio, etc.) which must be completed by the end of January

Sonia Labrador-Rodriguez
Associate Professor of Spanish Language & Literature

Preferred method to be contacted:
E-mail for initial contact: slabrador@ncf.edu
Office: ACE 322
Phone: 487-4286

- A well-developed proposal in writing before the 13th week of classes.
- For students who are interested in an ISP in Spanish, they must have completed at least a fourth semester of Spanish: "Advanced Composition & Conversation" or its equivalent.

Areas of interest within discipline:
- Representations of Blacks in Spanish American Literature and Culture
- Slavery in Latin America and the Caribbean
- Caribbean Literature and Culture
- History of Intellectuals in Latin America and Literature
- Race, Gender, and National Identity in Spanish America and the Caribbean
- Latin American Film
- Spanish Language (for students who have taken Spanish at New College)

Areas of interest outside discipline:
- Race and National Identity
- Slavery and Representations of Slavery
- Role of Intellectuals
- Photography
- Topics in Culture and Society in Latin America

Expectations for satisfactory completion of an ISP:
- At least two reports of progress (if not on campus, it can be via E-mail).
- Form of final project varies according to student's proposal.
- Submission of written work not later than the second week of classes (spring semester).

Fang-yu Li
Associate Professor of Chinese Language & Literature

Preferred method to be contacted:
E-mail: fli@ncf.edu
Fall Office hours: Mon. 12-1pm; Tue. 2:30-3:00pm; Wed. 12-12:30pm
Office: ACE 133
Phone: 941-487- 4277

Areas of interest within discipline:

- Modern Chinese Literature
- Chinese cinema
- Contemporary Chinese art
- Chinese pop-culture
- Chinese Diaspora literature and art
- Chinese-English Translation (for students with intermediate or higher level of Chinese)

Areas of interest outside of discipline:

- East Asian popular culture
- East Asian literature, films, and culture
- Asian American literature, film, and culture
- English translation of original texts in Confucianism and Daoism

Expectations for satisfactory completion of an ISP:

- Depends heavily on the nature of the project.
- Periodic contact with project sponsor, but work is intended to be independent.
- Final project must be completed no later than the end of the term. No incompletes will be granted.

Manuel Lopez
Associate Professor of Buddhist Studies and Religion

Preferred method to be contacted:
E-mail: mlopezzafra@ncf.edu
Office: ACE 204
Phone: 487-4317

Areas of interest within discipline:
- Buddhism
- Hinduism
- Asian Religions in general
- Meditation
- Religion in popular culture

Areas of interest outside of discipline:
- Popular Culture

Expectations for satisfactory completion of ISP:
- Depends heavily on the nature of the project
- Research-based projects typically involve 20-30 pages of writing (one long essay or several shorter essays)
- Periodic contact with project sponsor, but work is intended to be independent.

Nova Myhill
Professor of English & Theater and Performance Studies

Preferred method to be contacted:
E-mail: nmyhill@ncf.edu
Office: ACE 104
Phone: 487-4227

- I prefer to be contacted by e-mail.

Area of specialization:
Renaissance Drama, Shakespeare, audience studies.

Areas of interest within discipline:
- British literature before 1660: Medieval romance, Chaucer, Renaissance lyric poetry, Renaissance epic, prose fiction.
- European and American drama (12th century to present): Corpus Christi plays, academic drama, court drama, Shakespeare, development of the public theaters, Restoration drama, naturalism, absurdism.
- Avant Garde Theater and Performance.
- 16th & 17th century British social history.
- Theater history.
- Dramatic/Performance Theory.
- Theatrical Production.
- Digital Humanities.

Expectations for satisfactory completion of an ISP:
- An ISP represents four weeks of full-time work. Before the ISP begins, students should plan a fairly detailed schedule.
- I expect to meet with students at least twice during the ISP period, probably during the first and third weeks.
- Research ISPs should involve considerable work with primary texts and will normally result in about 20 pages of written work; my preference is for four short essays, one due each week.
- ISPs involving play productions will include journals and a short analytical essay in addition to the production itself.

José Alberto Portugal
Professor of Spanish Language & Literature

Preferred method to be contacted:
E-mail for initial contact: portugal@ncf.edu
Office hours: by appointment

Areas of interest within discipline:
- Modern Latin American narrative.
- History, Politics, and the Novel in Latin America (19th and 20th Centuries).
- The fantastic in Latin American and Spanish Literature
- Latin American gothic
- Early novel in Spain, 16th and 17th Centuries.
- Spanish American Literature, 16th and 17th Centuries (Colonial Voices)
- Representations of the Indian and the Indian World: (a) Latin American Novels and Essays of the 19th and 20th Centuries; (b) early Chroniclers and Historians of Indies, 16th and 17th Centuries.
- Reading Poetry of Spain and Spanish America (for advanced students of Spanish).
- Reading Modern Latin American Theater (for advanced students of Spanish).
- Exercises in TRANSLATION: short stories, poetry, essays. Spanish to English/English to Spanish (for advanced students of Spanish).
- Language ISPs involving study abroad, only for students who have completed at least the fourth semester of Spanish at the college level.

Areas of interest outside of discipline:
- Film: Cine Latino Americano, classic Westerns & neo-Westerns, Film Noir
- History of ideas: progress, modernization, development; utopias, anti-utopias, dystopias; messianic movements
- Gothic, horror, terror literature

Expectations for January ISP (ISPs conducted in Spanish only for students who have completed at least the fourth semester of language study at the college level):
- A well developed written proposal before the initial meeting. Proposal must represent four weeks of full-time work on the project.
- Initial meeting no later than week 11 of fall semester.
- A final proposal with description of final product and complete bibliography by week 12 of fall semester. Must include a detailed schedule.
- Frequency of meetings during January according to the project (no less than two for the period).
- Final project completed no later than the first week of classes of the spring semester.

Amy Reid
Professor of French and Gender Studies
Director, Gender Studies Program

Preferred method to be contacted:
E-mail: reid@ncf.edu

- Student's interest is the necessary motor for any successful project.

Areas of interest within discipline:

- My teaching covers topics in the 19th-century, as well as Francophone literature from Québec, the Caribbean, and Africa. I work mainly with prose fiction, but am interested in poetry and theater as well.
- Representations of women, *écriture féminine*; post-colonial writing and theory.
- Translation and translation theory. My current research focuses on translation and I would be happy to work with students on the practice of translation.
- Gender Studies & Feminist theory - both French feminist theory and the tradition of American Feminism, from the 19th century to the present; Contemporary women's writing (from U.S. & the Americas, as well as Africa).

Expectations for satisfactory completion of an ISP:

Requirements reflect student's projects and goals. I encourage students either to meet with me during ISP and/or to hand in their work in installments (2-3 short papers; short critical responses plus a final paper, etc.), so that communication strengthens the final project outcome. I can sponsor either individual projects or small groups.

David Rohrbacher
Professor of Classics

Preferred method to be contacted:
E-mail: rohrbacher@ncf.edu
Office: ACE 105

● Please contact me as early as possible and definitely before December 1.

Areas of interest within discipline:

- All areas of Greek and Latin literature, history, religion, and philosophy.
- The classical tradition in medieval, modern, and non-western literature, history, religion, and philosophy.

Areas of interest outside of discipline:

- Internships, especially related to pre-college teaching.
- Literature about work/the workplace, particularly the literature of restaurant workers and the literature of computer programmers and statisticians.
- Other topics in literature.
- Projects in digital humanities, for beginners as well as more advanced students.

Expectations for satisfactory completion of an ISP:

- Every project will vary. I favor extensive reading in primary sources.
- First-year Latin or Greek cannot be taken as an ISP. Those with more advanced language skills are, however, strongly encouraged to create ISPs which will allow them to read texts in the original languages.

Carl Shaw
Professor of Greek Language & Literature

Preferred Method to be contacted:
E-mail: cshaw@ncf.edu
Office: ACE 109

Please contact me as early as possible, definitely by the beginning of December.

Areas of interest within discipline:
- Greek and Latin literature and culture
- Greek poetry, especially drama
- Comedy and Satire
- Ancient Sexuality and Obscenity
- Literary theory / poetics
- Classical Mythology

Areas of interest outside of discipline:
- Reception of ancient drama
- Obscene / satirical genres
- Monsters and Monstrosity
- Textual criticism and transmission
- Indo-European Linguistics
- Rap and Hip-Hop

Expectations for satisfactory completion of an ISP:
- Expectations depend on the nature of project.
- Substantial reading in primary sources; regular progress reports or meetings; approximately twenty pages of written work.

Wendy Sutherland
Associate Professor of German, Black European and Diaspora Studies

Preferred method to be contacted:
E-mail: wsutherland@ncf.edu
Office: ACE 215
Phone: 487-4697

- Written proposals, bibliography, outline & preliminary discussions about projects are required.
- E-mail is the best form of communication.
- Follow-up discussions during office hours or by appointment
- Students are advised to contact me about a project before December 1.

Areas of interest within discipline:

- Berlin: City as Text; Berlin in Text and Film; History through Architecture
- German: advanced stylistics and translation.
- 18th – 20th century German drama: bourgeois tragedy, role of women, virtue and vice; authors include Gotthold Ephraim Lessing, Jakob Michael Reinhold Lenz, Johann Wolfgang Goethe, Friedrich Schiller, Heinrich Leopold Wagner, Friedrich Hebbel, Theodor Storm and Arthur Schnitzler.
- Role of Blacks in German literature, history and philosophy.
- Afro-German identity and the history of Afro-Germans from 1884 to the present.
- Afro-Germans and film; Blacks in German film.
- Topics of cultural history include: 18th century German bourgeois culture, the rise of Prussia, Berlin culture and history.

Expectations for satisfactory completion of an ISP:
- An ISP is a four-week, full-time academic effort, which is equivalent to a full-term undertaking. In most cases, students will write one analytical essay totaling approximately 25 pages in length. For critical papers, students are expected to use secondary sources.
- ISPs do not take the place of courses that are regularly offered, such as first-, second-, or third-term German. I will not sponsor projects involving the learning of a language that I do not read or speak.

Ashkan Tabatabaie
Visiting Assistant Professor of Music and Digital Media

Preferred method to be contacted:

Email: afakhrtabatabaie@ncf.edu
Office: CFA 208
Office Hours: Fall Term: F, 11 am-1 pm and by appointment.

Areas of interest within discipline:

- Media composition, song writing, arranging, and film scoring
- Digital, analog, and hybrid electronic music production
- Music technology and history
- Interactive audiovisual digital art production
- Music analysis
- Cross-cultural musical elements

Interdisciplinary areas of interest:

- Music cognition with an emphasis on auditory perception and physiology
- Music information retrieval (MIR)
- Physiological and perceptual music analysis
- Music and media distribution, monetization, and entrepreneurship

Expectations for satisfactory completion of an ISP:

Students must plan their time accordingly and be willing to work with me to devise a solid plan with clear objectives, usually in the form of evolving project drafts and updates within the formal ISP period. Full-time commitment to the project is expected.

Hugo R. Viera-Vargas
Assistant Professor of Caribbean and Latin American Studies and Music

Preferred method to be contacted:
Email: hviera-vargas@ncf.edu
Office: ACE 325

Areas of interest within discipline:

- Caribbean and Latin American Studies and History
- Popular Music of the Caribbean
- Music and Race in the Caribbean and Latin America
- Cuban and Puerto Rican History

Areas of interest outside discipline:

- Historical Thinking
- Race Relations in the Caribbean
- Caribbean Migrations
- Afro-Caribbean Drumming
- LatinX Music History.

Expectations for satisfactory completion of an ISP:

- Students should submit a research prospectus
- Students should submit a written work not later than the second week of classes (spring semester).
  The format of the written work will vary upon the nature of the research
- Regular weekly meetings

Alina Wyman
Associate Professor of Russian Language and Literature

Preferred method of contact:
E-mail for initial contact: awyman@ncf.edu
Office: ACE 132
Phone: 941 487 4281

Areas of interest within discipline:

- Russian Literature and Culture
- 19th and 20th century Russian prose
- Dostoevsky
- Russian and Slavic Literary Theory
- Mikhail Bakhtin
- City Literature

Areas of interest outside of discipline:

- Belarusian Language and Literature
- German literature and philosophy
- Max Scheler
- German Romanticism

Expectations for satisfactory completion of an ISP:

- A well-developed written proposal before initial meeting
- Initial meeting no later than week 11 of the fall semester
- A final proposal with complete bibliography and form of final project by week 13
- Final project completed no later than the second week of classes of the spring semester
- At least two meetings with me during ISP
- The frequency of meetings will depend on the project
- I will not accept ISPs after November 30th

Jessica K. Young
Assistant Professor of Global English

Preferred method to be contacted:
E-mail: jkyoung@ncf.edu
Office: ACE 206

Areas of interest within discipline:
- Postcolonial Literature and Theory
- World Anglophone Literature
- Trauma and Memory Studies
- South Asian Literature
- Indigenous Literature and Critical Theory
- Contemporary Literature

Areas of interest outside of discipline:
- Holocaust, Genocide, and Human Rights Studies
- Gentrification
- Museums, Memorials, and Monuments
- True Crime/Criminal Procedurals/Detective Fiction (Short Stories, TV shows, Podcasts, etc.)

Expectations for satisfactory completion of an ISP:
- Students should email me a proposal and reading list when scheduling an initial meeting to discuss an ISP
- Initial meeting to discuss ISP should be scheduled by the 13th week of class
- Expectations will vary based on the type of project, but will involve a balance between regular reading and writing assignments, including writing journals and a final paper, that demonstrate critical engagement with the texts and/or project materials
- Regular weekly meetings (via Skype if off campus)
- All work must be submitted by the end of the ISP term

Jing Zhang
Associate Professor of Chinese Language & Literature
Director, International Studies Program

Preferred method to be contacted:
E-mail: jzhang@ncf.edu
Office: ACE 214
Phone: 487- 4279

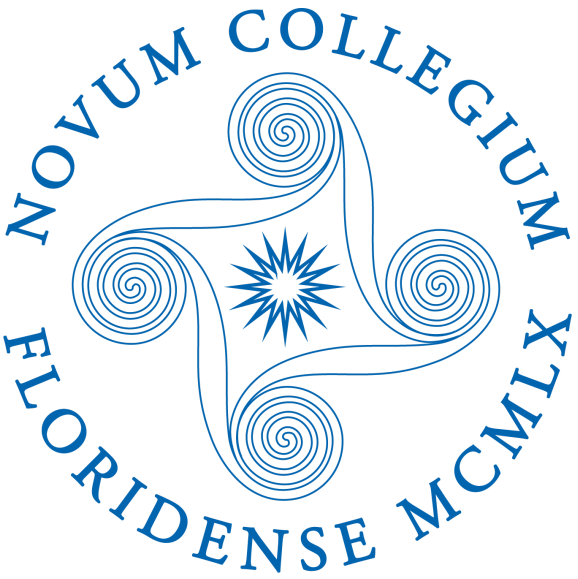
- Students should email me a description of the tentative project before making an appointment to talk about it.

Areas of interest within discipline:
I will consider any topic on Chinese Literature and Culture both in the national and global contexts, and my particular interests are in:

- Vernacular fiction and theater in the Ming and Qing China, from the 14th to the early 20th century
- Myths, tales, and stories in pre-modern China
- Classical Chinese poetry
- Modern and Contemporary Chinese fiction and theater
- Chinese cinema, particularly independent/underground movie-making
- Translation (for students with advanced knowledge of Chinese)
- Students who have taken my literature courses or tutorials and want to expand their readings and research are encouraged to do so through an ISP project with me

Other Areas of interest:
- American Chinese writers and artists
- Chinese art
- Internships related to China or the use of Chinese language and study abroad programs in China.

Expectations for satisfactory completion of an ISP:
For a project that involves mainly reading and writing, I expect the student to submit regular journals, short papers, annotated bibliographies and/or a research paper on one or two research topics related to the reading and findings.



Natural Sciences

Briana Aguila-Ames
Visiting Assistant Professor of Chemistry

Preferred method to be contacted:
Phone: (941) 487-4450
Office: HNS 211A
E-mail: baguilaames@ncf.edu

I wish to be contacted before the end of the Fall Semester about sponsoring an ISP. Please email me or come to my office to discuss. Tues 1-2:30 PM, Wed 10:30 AM-12 PM, or by appointment.

Areas of interest within the discipline:

- Geochemistry
- Carbon capture and sequestration
- Carbon mineralization
- X-ray crystallography
- Fourier-transform infrared spectroscopy
- Environmental chemistry
- Functional material synthesis
- Water purification
- Analytical chemistry

Areas of interest outside the discipline:

- Science education
- Cooking
- Camping/Hiking

Expectations for satisfactory completion of an ISP:

- Students are expected to work at least 30 hours per week on their project, to include but not limited to hands-on research, maintaining a lab notebook, and time spent in the library reading literature.
- Meetings will be held at least once per week to discuss your progress.
- For literature-based projects: a final review article (~20 pages) with a bibliography of scientific journal articles.
- For laboratory projects: a final lab report and/or oral presentation.

Rebecca Black
Associate Professor of Organic Chemistry

Preferred contact:
Email: rblack@ncf.edu
Fall student office hours: M 6-7:30 pm (Organic), F 9:15-11:15 pm (Organic); email me for an appointment to discuss ISP
Office: HNS E207
Office phone: 941-487-4368

Areas of interest within discipline:

- Organic and Inorganic synthesis
- NMR spectroscopy for structure elucidation and kinetic studies
- Air- and moisture-free synthesis
- Transition-metal catalysis of organic reactions, i.e. Acceptorless dehydrogenation
- Organic transformations relevant to environmental and industrial concerns/processes
- Polymerization catalysis and material properties
- Reading articles from the current organic, inorganic, or organometallic literature

Areas of interest adjacent to discipline:

- Science education research
- Developing chemical and information literacy

ISP Black Lab Research. We are in the last year of an American Chemical Society Petroleum Research Fund grant-funded project. ISP research in my lab will allow you to participate in an on-going synthetic organic and organometallic chemistry project. New students in the lab will be mentored by more experienced lab members to learn advanced laboratory skills, including using air- and moisture-free Schlenk technique and a nitrogen atmosphere glovebox. Students will work closely with me and others in the lab to synthesize target intermediates toward our target bisphosphine ligands and transition metal complexes of these ligands. It is recommended that students have taken at least 1 semester of organic chemistry lab. Email rblack@ncf.edu directly if you are interested in learning more about this project.

Expectations for satisfactory progress and completion:

Student researchers will:

- Begin ISP work on January 3rd. *Complete all chemical/laboratory safety training before this date.
- Spend ~25 hours/week in lab performing/working up reactions, and being trained on research-grade laboratory instruments; students will spend an additional ~10 hours per week searching for and reading relevant literature, writing up procedures for experiments, and maintaining a clean lab environment.
- Students should plan to be available between 12-6 pm M-F, each day of ISP, but not all days will be scheduled for experiments.
- Communicate progress through an up-to-date lab notebook and weekly presentations.
- "Deliverables" (due Saturday Jan 27th, midnight) include: (i) an experimental section (in *ACS* publication style), and (ii) a reflection on your ISP experience.

Amy Bohan
Instructor of Biology

Preferred method to be contacted:
Phone: (941) 487-4662
Office: HNS E257
E-mail: abohan@ncf.edu

I wish to be contacted before the end of the Fall Semester about sponsoring an ISP.

Areas of interest within the discipline:

- Molecular Biology
- Canine Congestive Heart Failure
- Anatomy of humans
- Physiology of Humans
- microRNA's and their roles as potential biomarkers in human and animal diseases

Areas of interest outside the discipline:

- Literature-based research/projects about topics in Anatomy and Physiology
- Literature-based research/projects about microRNA's
- Students may elect to expand upon a topic covered in one of my courses.

Expectations for satisfactory completion of an ISP:

- For laboratory projects: 12 hours per week of hands-on research, keeping of an up-to-date lab notebook, and a final 10-15-page lab report.
- For literature-based projects: short (1-2 page) weekly summaries along with a weekly meeting to discuss the readings plus a final 20-30 page review article with references that include scientific journal articles.

Donald Colladay
Professor of Physics

Preferred method to be contacted:
E-mail: colladay@ncf.edu
Office: HNS 202D

Areas of interest within discipline:

- Graphical Computer Simulations: These projects involve modeling physical systems on the computer. Examples of previously completed projects include a three-dimensional Hydrogen atom viewer, scattering of gaussian wave packets from potentials, and a lattice model of the Maxwell equations. Any of these can be expanded to include more general cases. The programs are currently written in C++ on the Macintosh. Other simulations that could be developed pertain to small modifications of conventional laws of physics that may be induced by an underlying theory at a high-energy scale. Some knowledge of electricity and magnetism or quantum mechanics as well as an interest in learning basic programming is necessary. Spontaneous Breaking of Fundamental Symmetries for Photons: Recently it has been proposed that small modifications to conventional physics equations may be induced by a more complete unified theory of nature. A model has been developed that incorporates these explicit modifications into Maxwell's equations. This project involves performing a study of the resulting modified dispersion relation for photons in the vacuum. The stability and causality properties of the photon propagation need to be worked out

- Effects of Symmetry Breaking on Fermion and Boson gasses: This is an ongoing project involving an analysis of gasses of particles under the influence of small perturbations induced by spontaneous symmetry breaking mentioned above. Some work has been done on fermions with some special cases of couplings. There are more terms to be analyzed and the bosons also need to be investigated. Some knowledge of statistical mechanics is required.

- Other projects in Spontaneous Symmetry Breaking: There is a wide range of theoretical projects that can be completed in this general area. Some more mathematical and some involving analysis of previous experiments. Come and speak to me if you are interested and we will talk about some projects that may suit your interests.

- Lab experiments: Students may complete a series of experiments (specifics to be discussed) using recently purchased equipment. These experiments involve measuring the force of gravity between two small masses, measuring the speed of light using a high-speed rotating mirror, and measuring magnetic forces due to currents in wires. All of these experiments involve significantly more effort than the introductory physics laboratory but do not require expertise beyond physics 1 and 2. They are great for students who want to spend a significant amount of time on a few more detailed experiments.

Expectations for satisfactory completion of an ISP:

- I like to meet at least once per week for an hour.
- The student should keep a notebook of calculations and ideas.
- For a computer project, a final running program that includes the essential elements of the simulation should be completed.
- For a theoretical project, a final summary of results in a report is required.

Melissa Crow
Instructor of Statistics

Preferred Contact:

Email: mcrow@ncf.edu

Areas of interest within discipline:

- Data visualization
- Time series analysis
- R/RStudio
- Applied statistical analysis

Areas of interest outside of discipline:

- Statistics education
- Science education
- Applied statistics projects in other disciplines

Expectations for satisfactory completion of an ISP:

- Estimated work: around 30 hours per week for weeks 1-3; the final week is generally spent on a capstone project or paper.
- Students will:
    - Plan to meet with me at least a couple times per week. This typically includes a check in at the start of the week to discuss goals and a tentative schedule for the week, as well as a mid-week or end-of-week check in to go over progress and troubleshoot any issues.
    - Keep a written record summarizing readings, lessons, and work completed each week.
    - Produce a written report and/or an oral presentation of results; written reports should typically be created using R Markdown and should include all R code necessary for reproducing the analysis.

Kristopher Fennie
Associate Professor of Epidemiology

Preferred method to be contacted:
Phone: 487-4224
Office: HNS 123B
E-mail: kfennie@ncf.edu

- I request students interested in an ISP contact me by fall semester's end.

Areas of interest within the discipline:
- Epidemiologic methodology/causality
- Infectious disease epidemiology
- Global health
- Social determinants of health
- HIV/AIDS
- Transgender healthcare (namely access to health care)
- Health care in China

Areas of interest outside of the discipline.
- SAS programming and analysis
- Patient-provider trust
- Demography
- Medical entomology
- Public health
- Questionnaire design

Expectations for satisfactory completion of an ISP:

Students should be engaged and truly interested in the project for an ISP. Requirements for a satisfactory completion of an ISP will depend on the specific project. Most ISPs would be literature-based projects, and would require weekly meetings (virtual is acceptable), a weekly progress report, and a final paper (eg a systematic review) or report (summary of the work done). Expectations for ISPs in the field would be discussed prior to acceptance, and dependent on scope of field work.

Sandra Gilchrist
Professor of Biology & Marine Science
Chair, Natural Sciences Division

Students can e-mail, gilchrist@ncf.edu or call, 487-4598
Office: Heiser E171, http://www.ncf.edu/gilchrist/

Students generally contact me through classes. I am reluctant to sponsor any ISP for a student who has not been in a class with me. Students can find topics below. For questions students should contact me by email. DO NOT WAIT UNTIL THE LAST MOMENT AS MY ISP SLOTS FILL QUICKLY.

Areas of interest within discipline:

- Ecology of coral reef organisms.
- *Drosophila* genetics.
- Crustacean biology.
- Service learning at places like March of Dimes, local schools.
- Ecology of Hermit crabs and their predators/resource allocation
- Cloning corals.
  - Women and science
  - Animal wellness and betterment
  - The science of racism.
  - Science of science fiction.
  - Seagrass ecology.
  - Mangrove ecology
  - Aquaculture of invertebrates

Areas of interest outside of discipline:

- Science Education

Expectations for satisfactory completion of an ISP:

- Students are expected to spend about 30 hours a week directly engaged in ISP activities. Common formats for the ISPs are field/lab notebooks, photo journals with essays, presentation to a student group, eportfolios, and annotated bibliographies.
- Many of the ISPs are experiential; thus the evaluation tools are reflective of this.
- Students generally meet with me once a week (for 1st and 2nd year students) and once every other week for more advanced students. Meetings can be via e-mail or online chat.
- Students who go to Honduras with the reef program must keep a lab/field notebook, learn underwater photography and scientific technique, learn field safety, and demonstrate understanding of data processing. Data and experiences from Honduras can be used as a basis for a January ISP. However, the expectation is that the student put in at least 30 hours a week during January on the project.

David Gillman
Associate Professor of Computational Science

Preferred Method to be contacted:
E-mail: dgillman@ncf.edu
Office: ACE307
Please contact me as early as possible, definitely by the beginning of December.

Areas of interest within discipline:
- Networks
- Civic innovation
- Machine learning
- Image processing
- Clinical informatics
- Complexity
- Randomness

Areas of interest outside of discipline:
- Technology and society
- Probabilistic method
- Singing: traditional world music, jazz, and early music
- Ultimate frisbee

Expectations for satisfactory completion of an ISP:
- Expectations depend on nature of project
- Regular progress reports or meetings

Fahmida Hamid [she/her]
Assistant Professor of Computer Science

Preferred method to be contacted:
Email: fhamid@ncf.edu
Fall Office Hours:
Tuesday 2:00 - 4:00 PM
Also by appointment
Office - HNS 153 E

Areas of interests within discipline:

- Natural Language Processing
- Information Retrieval
- Recommender Systems
- Semantic Role Modeling in Bengali Language

Areas of interests outside discipline:

- Computer Science Education

Expectations for Satisfactory Completion of an ISP:

- Plan for at least 20 productive hours per week.
- Plan for a team/group work.
- Plan for self-teaching new languages based on the requirements
- Present the work completed in the CS seminar or Feminist Friday or any other seminar that NCF organizes. This can be done after the ISP has been completed during the Spring semester

Sample ISP ideas:

I will be thrilled to guide you in some projects like the following:

- Implementing some algorithms to extract keyphrases from a dataset,
- Building a knowledge base on a specific domain by scrapping the web,
- Making a recommender system to recommend some music, etc.
- Or some ideas of your interest.

The pre-requisite is familiarity with a programming language such as Python. Please feel free to email me, and we can discuss it.

Lin Jiang
Associate Professor of Bioorganic Chemistry

Preferred method to be contacted:
E-mail: ljiang@ncf.edu
Office: HNS 216A
Note: Please contact me no later than Nov. 28th. Email me or come to my office hours: T and R 1:30 - 2:30 pm or W 10 am - 11 am.

Areas of interest within discipline:

- Natural Dye sensitized solar cells
- Metabolomics study on marine invertebrates exposed to various environmental pollutants
- Synthesis of Nanomaterials
- Photocatalytic Degradation of Organic Pollutants in Wastewater
- Environmental Chemistry and Environmental Analysis
- Instrumental Analysis
- Environmental Engineering

Areas of interest outside of discipline:

- Green Chemistry
- Chemistry Education

Expectations for satisfactory completion of an ISP:

- Students with previous lab experiences (Gen Chem lab, etc.) are expected.
- A 30 hours per week work load is expected which includes the time spent in the library and some possible field trips. All students are required to record their work progress in their lab notebooks in detail.
- A weekly meeting will be held to discuss students' work progress and a detailed lab report and/or short presentation will be expected in the meeting. A final paper in the style of a scientific manuscript is required at the end of the ISP.

Chris Kottke (he/him)
Associate Professor of Mathematics

E-mail: ckottke@ncf.edu
Office: HNS104
Fall 23 Office Hours: TWF 11-12
Please contact me as early as possible, no later than December

Areas of interest within discipline:
- Analysis
- Geometry
- Topology

Areas of interest outside of discipline:
- Jazz improvisation/composition
- Cooking
- Sport climbing/Bouldering

Expectations for satisfactory completion of an ISP:
- Expectations depend on nature of project
- Regular progress reports or meetings

Samantha Levell
Visiting Assistant Professor of Fish Biology
https://slevell.wixsite.com/slevell

Preferred method to be contacted:
Email: slevell@ncf.edu
Office: HNS-E252

Areas of interest within discipline:

- Fish biology, ecology, and behavior (freshwater and marine species)
- Aquatic invertebrate biology, ecology, and behavior
- Freshwater (including lakes, rivers, and watersheds) ecology
- Marine (including estuary, mangrove, seagrass, and other tropical habitats) ecology
- Aquarium science

Areas of interest outside of discipline:

- Data analysis
- Science education
- Ecotourism (e.g. kayak tours)
- Habitat conservation and restoration

Expectations for satisfactory completion of an ISP:

- Students are expected to work at least 30 hours per week on their project.
- Students are expected to reach me as soon as possible in Fall to discuss ideas for an ISP.
- Students are expected to meet with me at least weekly to discuss their project progress.
- Students are expected to maintain a field/lab journal detailing and reflecting on their project.
- Final projects may include a combination of written and oral reports depending on the project.
- All work must be completed by the end of the ISP.

Patrick McDonald
Professor of Mathematics

Preferred method to be contacted:
E-mail: mcdonald@ncf.edu
Office: HNS 103

Areas of interest within discipline:
- Probability (Statistical Mechanics, Information Theory, Diffusions, etc.)
- Analysis (Mathematical Biology, Finance, Control Theory, etc.)
- Geometry (Projective, Riemannian, Symplectic, Finsler, Algebraic, etc.)
- Number Theory (Algebraic, Analytic, Encryption, etc.)
- Other – (Linear Programming, Combinatorial Optimization, etc.)

Areas of Internet outside the Discipline:
- Data Science, broadly construed (Machine Learning,, Visualization, etc.)
- Network Science
- Mathematical Physics
- Brazilian Jiu Jitsu

Expectations for satisfactory completion of an ISP:
- Depends on ISP. Possible formats: Collection of solved problems, program with output, oral and/or written exam.
- Weekly progress reports

Daniel Page
Visiting Assistant Professor of Computer Science

Preferred contact:
Email: dpage@ncf.edu
Office: HNS E155

Areas of interest within discipline:

Primary interests: Theoretical Computer Science

- Especially Approximation Algorithms, more broadly algorithms and computational complexity theory; the study of algorithms and understanding underlying computational complexities of computational problems, e.g. algorithmic lower bounds.
- Combinatorial Optimization, especially in relation to machine scheduling, packing, or graph-theoretic problems.

Other interests:

- Computational Discrete Mathematics
- For more details, see my website: https://drpage.pagewizardgames.com/

Areas of interest outside of discipline:

- Games, Game Development, and Graphics
- Computer Science Education and History
- Academic freedom issues in Canada

Preliminary requirements: Independent project proposals must be submitted, revised, and approved. Any ISP project with Dr. Page must be completed during the January interterm, there is a possibility that project can be built upon for future ISPs with potentially a different faculty member. It is expected students participating in ISPs are prepared to self-learn and meet for regular meetings, and possibly present their work at the end of the ISP.

Tania Roy
Assistant Professor of Human Centered Computing

Preferred method to be contacted:
Email : troy@ncf.edu
Fall Office Hours:
Tuesday 2:00 - 4:00 PM
Also by appointment
Office - HNS 157 E

Areas of interests within discipline:

- Human Computer Interaction
- Virtual Reality
- Augmented Reality
- 2D Game Development
- Mental Health Awareness
- User-interface design and evaluation
- Mobile phone app design and development
- Applied machine learning for socially relevant issues
- Privacy and security
- Ethics in STEM

Areas of interests outside discipline:

- Gender and racial diversity issues in recruiting and retaining students in computer science
- Interpersonal violence prevention and the role of technology
- Bengalis - The language (বাংলা), literature (Tagore), movies(Satyajit Ray) and the people.
- BTS - The music, impact and society

Expectations for Satisfactory Completion of an ISP:

- Depends on the nature of the ISP
- If the ISP involves work related to human subjects (most of my research interests do) the student needs to complete the CITI training and talk to me about the research plan before November 1st so we can submit the IRB application prior to the November deadline.
- Typically, weekly progress reports and/or meetings with a research paper or computer/software system at the end of the ISP
- Present the work completed in the CS seminar or Feminist Friday or any other seminar that NCF organizes. This can be done after the ISP has been completed during the Spring semester

George Ruppeiner
Professor of Physics

Preferred method to be contacted: E-mail: ruppeiner@ncf.edu; Office: HNS 202A
Generally, I prefer to have had a student in a class before working with him/her.

Areas of interest within discipline:

- Numerical Solutions of Equations: Often in science and mathematics, equations are encountered which cannot be solved in closed form. When this happens in the classroom the instructor generally says, "this equation can in principle be solved numerically" but does not do it. An ISP on this topic would take a number of such equations and actually solve them by numerical techniques. You might do numerical solutions to transcendental equations, solutions of differential or partial differential equations, numerical integration, or fitting data to functions. Prerequisite: some working knowledge of computers and some background in an area of science.

- Thermodynamics: Because of the structure of Physics I and II, this important subject usually gets short shrift in the Physics program. This ISP would allow you intense study of thermodynamics. Study the first and second laws of thermodynamics, which contain energy conservation and the rule that entropy must increase, respectively (roughly speaking, the first says that you cannot get something for nothing, and the second says you cannot even break even!).

- Cellular Automata: Study some of the basics of physical problems, which do not lend themselves to representation by differential equations. For example, the growth of a snowflake. The idea is to make up simple rules for the behavior of system constituents and then apply these rules many times with a computer. Unexpectedly simple patterns emerge which bear little resemblance to the original basic rules. Some think that Life may be modeled by cellular automata!

- The Solution of Computationally Intractable Problems by Simulated Annealing: There are some computer problems which do not allow for an exact solution in any reasonable computation time. Examples are graph partitioning, the traveling salesman problem, and the bin-packing problem. The alternative is instead to find very good solutions. A method of doing this is called simulated annealing, discovered in 1983 by researchers at IBM. Implement this algorithm on some problem of interest.

- Measuring the speed of light: This project combines library research with actual laboratory measurements. You will repeat Foucault's famous direct measurement of the speed of light. His experiment is based on the principle that light reflected from a rotating mirror suffers a delay returning to the rotating mirror on being reflected from a distant, fixed mirror. Despite the fact that light travels at a speed which would allow it to circle the equator seven times in a second, this delay is measurable. Supplementing the experiment will be a library research project to investigate the history of the measurements of the speed of light and present continuing efforts to better determine its value.

- Astronomical CCD photography with a 5" Meade reflecting telescope: Learn to use a computer-controlled top of the line amateur Meade telescope. Learn to take CCD (Charge Coupled Device) photographs with a computer and process the results. This ISP would require a notebook laying out your learning progress, a set of photographs you have taken to demonstrate your competence, and a paper summarizing the basics of CCD photography. A small research project in astronomy, such as the measurement of the rotation period of a planet, or the light curve of a variable star would also be welcome.

Expectations for satisfactory completion of an ISP:

- I like to meet at least once per week, an hour.
- I call for a notebook of problem solutions, or a final paper.
- In laboratory projects, I call for a laboratory notebook with results and a final lab report.
- On signing up for ISPs, I pay great attention to the bibliography, so come ready with some good sources.

Athena Rycyk
Associate Professor of Biology and Marine Science

Preferred contact:
Email: arycyk@ncf.edu
Fall office hours: Monday 1-2 and Thursday 2-3:30 (or by appointment)
Office: HNS 255E

Areas of interest within discipline:

- Marine Mammals
- Acoustics
- Animal Behavior
- Ecology
- Conservation
- Oceanography

Preliminary requirements:

Students must discuss their ISP with me and develop well-defined objectives, a timeline, and outcomes in fall.

Expectations for satisfactory progress and completion of an ISP:

I expect students to work 40 hours per week on their project and provide frequent updates on their work. This usually includes meetings at least once a week to discuss your progress (in person, via zoom, or online chat) and written updates. The structure and final product of the ISP is flexible and will be agreed upon in fall.

Mariana Sendova
Professor of Physics

Preferred method to be contacted:
E-mail: sendova@ncf.edu
Office: HNS 202B

- When signing up for the ISP, come with a short written statement of your main interest and area of study, which may include some bibliography.
- Further on I can assist you in finding literature and articles related to your project at your level.

Areas of interest within discipline:

- **Optics**: Optics constitutes one of the most important areas of physics. Indeed, advances in Optics have led the way in a revolution in the communications and computer industries. You can study particular phenomenon in the area of geometrical or physical optics. You can become acquainted with various areas of Optics, which usually are not discussed in Physics II or Optics courses in the Physics program. This ISP would allow you intense study of areas such as nonlinear optics, Fourier optics, holography, science of color, optics in nature, optics and vision, and fiber optics. You can study optical properties of various amorphous or crystalline materials as well.
- **Lasers**: The laser is now found not only in the research laboratory but in automobile factory, in the hospital, on the construction site, and even in the supermarket. A great need exists for everybody to have a broader familiarity with this recent addition to today's technology. Presently a gap exists between the brief reviews of lasers provided in modern physical optics texts and the thorough, graduate-level texts on lasers and quantum electronics. An ISP project in the area of basic laser principles may fill this gap. You may study different phenomena and techniques for generating extremely short pulses B with a duration of a few femtoseconds (10^{-12} s).
- **Laser applications**: If you are interested in a specific area of laser application, such as lasers in ophthalmology, dermatology, or in surgery in general, or dynamic phototherapy (DPT) for cancer treatment, or lasers in communications, microelectronics, spectroscopy, holography, satellite ranging, fusion. Even in art restoration, this ISP project will allow you to acquire deeper understanding in the physical principles and specifics of the chosen from your laser application.
- **Thin films**: Thin solid films on solid substrates are widely used in many areas of modern technology, such as protective coatings, sensors, membranes, microelectronic devices. The physical properties of the thin films are different from the physical properties of the bulk material. This ISP can introduce you to the variety of methods for thin film deposition, thin film characterization, and some main concepts in studying their structural, electrical and optical properties.

Expectations for satisfactory completion of an ISP:

- I like to meet at least once per week, for an hour.
- I require a notebook of problem solutions or idea development, or a final paper describing the most important concepts of your study project.

Milo Schield
Visiting Professor: Statistics (statistical literacy)

Preferred method to be contacted:
Email: mSchield@ncf.edu
Office: Heiser 105 East
Availability fall term: Office hours 1:15-2:00 pm Tues, Thurs and Friday. Available Friday mornings.

Goal: Mentor students' independent inquiry, analysis and evaluation.

Areas of interest within the discipline:
* Group class: Student presentations analyzing real-world social statistics. In person or Zoom.
* In depth investigation of how statistics are used evidence in social arguments (politics, social studies, social justice, DEI), and in other disciplines and professions (sociology, education, and sports).
* Reviews and evaluations of books presenting controversial claims using social statistics as evidence
E.g., The Bell Curve, More Guns; Less Crime, and Human Diversity

Areas of Interest outside the discipline:
* Epistemology/induction: Socrates, Aristotle, Hume, Bacon, G. E. Moore, McCaskey, and Groarke
* Philosophical history of Islam: Emanation, occasionalism, Avicenna, Al-Ghazali (Ashari), and Averroes.
* Philosophy of science: Medical vs. social epidemiology, evolution vs. design, emergent properties
* Ethical philosophy (standards of value): Aristotle, utilitarianism, Kant, Rand, and Rawls
* History of Christianity: Paul (non-Jewish Christianity) vs. James (Jewish Christianity)
* Political Science: Liberalism (classic) vs. Libertarianism/Objectivism; nature of human rights
* Controversial books such as those by Wilder, Sowell, Murray, Horowitz, Steele, and McCloskey
* Space Physics: sun spots, solar wind, geomagnetic field and the aurora
* Investing: stocks vs commodities; margin vs. options
* Business: startups, business plans including SWOT analysis, finance, marketing and sales

Preliminary ISP requirements:
Students first contact me by the 12th week of fall semester to set up a meeting time [office hours on Tues, Thurs or Friday (1-2pm), schedule office meeting Friday 8-11:30am, or Zoom Monday or Wednesday (8-11am; 1-3pm)] to discuss your topic. Students will schedule a second meeting and bring the following in writing: a tentative description of the topic, goals and output of the ISP, the process or activities involved, a weekly timeline, the criteria for evaluation, and a reading list (if applicable). Goals may include personal changes. An ISP requires intellectual independence, motivation and discipline.

Expectations for satisfactory completion of an ISP:
* A final written report is due by the last day of the ISP or else the ISP is unsatisfactory, No extensions.
* Must check in either in-person or electronically at least twice per week,
* Project must be a substantial time commitment (20-30 hours/week) with weekly written reports,
* Final report must include a self-evaluation of the original goals, progress and outcome.

Andrey Skripnikov
Assistant Professor of Statistics

Preferred contact: Email: askripnikov@ncf.edu
Students interested in an ISP please contact me no later than week 12 of Fall term.

Areas of interest within or adjacent to discipline:

- Statistical Modeling (Linear Models, Logistic Regression, Categorical Data, etc)
- Sports analytics (am. football, basketball, tennis, soccer)
- Time Series Analysis
- Machine Learning (Random Forests, Neural Networks, Support Vector Machines, Clustering)
- R Statistical Software, Web Scraping, Data Wrangling

Examples of projects: Dr. Skripnikov could either sponsor students who already have a data- or statistics-related research question of their own in mind, or those who might be interested in sports analytics and statistics, where he has several projects that he could suggest. If it's the former, students might have the data already identified and collected (typically in a form of data files), or at least know their general application of interest so that they could either proceed to scrape it from the web, or potentially find appropriate "pre-cooked" data sets from websites like Kaggle.com, among others. If it's the latter, some of the project examples include:

- Analyzing NFL play-by-play data,
- Developing offensive efficiency metrics in basketball
- Studying scoring dynamics in tennis matches

Besides data analysis, statistical modeling and machine learning types of projects, Dr. Skripnikov will also consider ISPs involving reading/literature surveys for a subfield topic of data science or statistics. Proper planning and time management are essential for the completion of a successful ISP.

Note: students interested in an ISP with Dr. Skripnikov should contact him no later than week 12 of Fall term to discuss project options. Students will need to write a research proposal, including their research questions of interest, intended data sources, and expected workflow of conducting the analysis, all of which should be submitted by the starting date of ISP.

Expectations for satisfactory progress and completion:

Throughout ISP, students are expected to work 30 hours/week on their project, including such tasks as performing background reading and planning, getting trained on using appropriate software, familiarizing themselves with various methodologies of dealing with data, and attending individual and/or group ISP meetings. Students are expected to communicate their progress and findings throughout ISP by providing weekly written progress reports (and a final summary report), in addition to meeting with Dr. Skripnikov at least twice per week (in person or virtual). For projects that involve programming, source code and a functioning script or program will be expected as well.

Gerardo Toro-Farmer
Associate Professor of Coastal and Marine Sciences
https://sites.google.com/ncf.edu/torofarmerlab

Preferred method to be contacted:
Email: gtoro-farmer@ncf.edu
Office: HNS-101

Areas of interest within discipline:
- Spatial-temporal distribution of marine communities
- Coral reefs, seagrasses and mangroves ecology
- Coastal habitats connectivity
- Water quality and marine pollution
- Marine ecosystems mapping
- Geographic Information Systems (GIS)
- Remote Sensing (unmanned aerial vehicles [drones], satellites, underwater robots)
- Technologies and instrumentation for coastal marine studies

Examples of projects include: Mapping and health of seagrasses in Sarasota Bay via fieldwork and aerial images. Implementation of drones to monitor coastal and marine ecosystems. Configuration and maintenance of an aquarium for live-corals experiments. Diversity and distribution of phytoplankton species. Optical properties and distribution of red-tides. Development of a water quality monitoring system for Sarasota Bay.

Areas of interest outside of discipline:
- Methodologies and computer resources for data visualization and analysis
- Renewable energies
- Archaeology/anthropology
- Paleoecology

Expectations for satisfactory completion of an ISP:
- Students are expected to reach me as soon as possible in Fall to discuss ideas for an ISP. Research-based projects with field and/or lab data collection or data analysis are desired
- Students must have a fairly detailed plan and schedule before we start the ISP
- Weekly progress reports (in person, email or video conference) are expected. More frequent communication and meetings can also be expected depending on the project
- Students are expected to work at least 30 hours/week on their project
- A final written project/report is due the last day of ISP
- All work must be completed by the end of ISP

Vlad Serban
Visiting Assistant Professor of Mathematics

E-mail: vserban@ncf.edu
Office: HNS 105
Please contact me as early as possible, no later than December

Areas of interest within discipline:

- Algebra
- Number Theory
- Geometry of numbers
- Applications of the above (sphere packings, cryptography, coding theory,...)

Areas of interest outside of discipline:

- Chess
- Sports (not that chess isn't one!), e.g. basketball, swimming, soccer..
- Theology and aesthetics

Expectations for satisfactory completion of an ISP:

- Expectations depend on the concrete project
- Typically weekly meeting/progress and some final written report or collection of problems.

Katherine M. Walstrom
Professor of Biochemistry

Preferred method to be contacted:
E-mail: walstrom@ncf.edu
Fall Office hours: Mon. 10:30-noon, Thurs. 1-3pm in HNS 220, and Fri. 1-2pm on Zoom; optional – you can make an appointment.
Office: HNS 220

Areas of interest within discipline:
Biochemistry laboratory research projects for all levels of students. Examples of projects: enzyme assays, maintaining and observing *C. elegans* nematodes, collecting and identifying wild nematode species.

Areas of interest outside of discipline:
- Observation of doctors in hospitals or emergency rooms.
- Library research about subjects related to biochemistry or human diseases

Expectations for satisfactory completion of an ISP:

- **For lab work**: work in the lab at least 30 hours per week, prepare a lab notebook, and write a five- to ten-page formal lab report or prepare a scientific poster describing the research project.
- **For doctor observation**: work with the doctor at least 20 hours per week, keep a daily journal, write a two-page self-reflective essay about how the experience affected your future professional plans, and write a five page research paper about a medical condition (with appropriate references cited).
- **Research in library**: ten-page research paper with references that include peer-reviewed scientific journal articles

Tiago Perez
Assistant Professor of Data Science

Preferred Method of contacted:
E-mail: tperez@ncf.edu
Office: HNS 110

Sponsoring the Group ISP, **"Data Science in a Nutshell (and Why It could be a Game-Changer For You)",** which will give you an intensive journey and hands-on learning into the roles, ethical implications, tools, algorithms and frameworks used by data scientists, a highly sought after professional in the modern world.

Areas of Interest within the Discipline:
- Data Science & Big Data
- Cloud or Distributed Computing
- Machine Learning, Artificial Intelligence and Data Mining
- Data or Computer Science Ethics

Areas of Internet outside the Discipline:
- Cryptography and Computer Security
- Computer/Data Science Education
- Games Development
- Board Games (specially its use in CS/DS education)
- Science Fiction (specially related to AI)

Expectations for Satisfactory Completion of an ISP:
- Depends on the nature of the ISP, but…
- Expected 20 hours/week of participation and independent learning.
- ISPs will most likely include: intensive reading, workshops, student presentations and a hands-on approach.
- Students are expected to turn in a final assessment/essay on their learning in this ISP, addressing concepts, new knowledge and skills they have acquired

Necmettin Yildirim
Professor of Mathematics

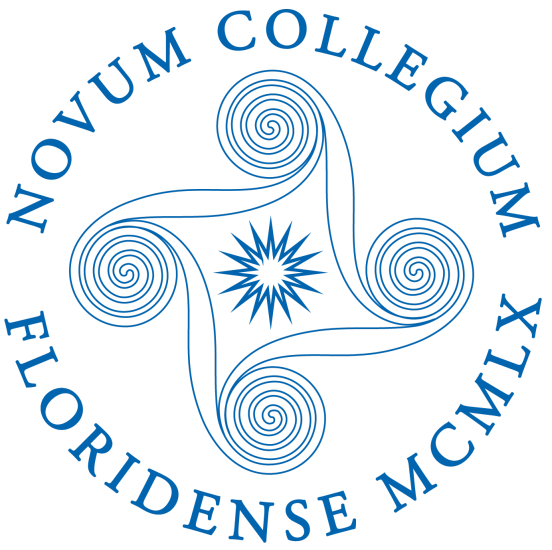
Preferred method to be contacted:
Office: HNS 109
E-mail: nyildirim@ncf.edu

Areas of interest within discipline:

- ❏ Dynamical Systems
- ❏ Difference and Differential Equations
- ❏ Applied Linear Algebra
- ❏ Computer Algebra and Symbolic Computation
- ❏ Stochastic Simulation
- ❏ Mathematical Biology
- ❏ Population Dynamics
- ❏ Systems Biology
- ❏ Enzyme Kinetics
- ❏ Gene Regulation
- ❏ Cellular Signal Transduction

Expectations for satisfactory completion of an ISP:
This may change depending upon the project but, in general, I would expect:

- ❏ To meet weekly (at least once a week). Students are expected to spend about 20-25 hours a week directly engaged in ISP activities.
- ❏ For a computer project, to submit a final running program and printout for the code.
- ❏ For a theoretical project, to submit a final summary of results in a report.



Social Sciences

Gordon Bauer
Emeritus Professor of Psychology

Preferred method to be contacted:
E-mail: bauer@ncf.edu

Areas of interest within discipline:
- Animal sensory processes, cognition, and behavior.
- Opportunities for manatee research on sensory processes, movement, learning, and memory may be available.
- Informal education
- Other topics might include music or art perception and cognition, human sensory processes.
- Internships related to marine mammal or other animal research.

Expectations for satisfactory completion of an ISP:
- Meetings are related to framing questions for study and resolving research problems on an as-needed basis.

Final projects usually take the form of a research report, review paper and annotated bibliography, and in some cases a personal description of the research experience, especially where internships are involved.

Michelle Barton
Associate Professor of Psychology

Preferred method to be contacted:
E-mail: mbarton@ncf.edu
Office: BON 006
Phone: 487-4382

If you are not coming in person, then start with an email. However you MUST follow up with a visit before I agree to sponsor your project. Office Hours are Tuesdays & Wednesdays, 3:30-5pm or by appointment.

Areas of interest within discipline:
- Developmental psychology, especially infancy–adolescence, but adult development and aging are fine too.
- I will entertain topics related to developmental psychology, such as education, motivation, expertise, informal learning, learning/motivation/skill building in nonacademic contexts (eg, sports, arts, chess, etc).

Library research projects:
- These are doable, but harder than you may think, because I still expect a full 40 hours/week for 4 weeks. These are best combined with some sort of internship/volunteer experience or empirical (mini) project (see below). But, if you are willing to commit to the full-time expectation, then a pure library research project can be done without the added practical component.

Internship projects:
- Academic projects stemming from internships or volunteer experiences relating to developmental psychology are an excellent choice for an ISP. (Note: This usually must include some academic reading, writing, and/or oral presentation component beyond the work of the internship -- in other words, I have to have something to see and evaluate that represents your goals and learning through the internship experience.)

Empirical projects:
These may include, but are not limited to:
- Data analysis of public archival data on topics listed above.
- Content analyses of various public media related to topics listed above (e.g., children's lit, TV, ads, etc.).

(NOTE: I will not sponsor empirical projects involving child participants unless they have prior approval from the New College Institutional Review Board for Research with Human Subjects. This requires much advanced planning of the project, done in consultation with me, but can be done under certain circumstances.)

Areas of interest outside of discipline:
- Educational topics (particularly if related to cognitive development –see above.)

Expectations for satisfactory completion of an ISP:
- Weekly meetings to go over plans and progress, including first week (or weekly emails, if you are off campus for the ISP).
- Plans are in place for work to be accomplished in week 1 (this must be agreed upon when I sign off on the ISP form so you are ready to go from the start of ISP), and then plans are laid out for the other 3 weeks.
- Work is steady throughout the ISP period: project represents a full four-week effort.'
- Final product includes at least some written work; the form of that written work is flexible (additional oral presentations are possible, as are other types of creative products).

Tracy Collins
Associate Professor of Economics

Preferred method to be contacted:
E-mail: tcollins@ncf.edu
Office: ACE 134

- Students should contact me by email to make an appointment.
- Each student should bring a draft of the ISP proposal that includes an outline, objectives, and proposed schedule to the first meeting.
- After the initial meeting, a final draft of the ISP proposal should be emailed to me by 11/25. I will not consider sponsoring ISPs that haven't been discussed with me prior to this deadline.
- My deadline for signing the ISP form is 11/30. Please note that I will not sign any form after this date.

Areas of interest within discipline:

- Economic Development
- International Trade
- Technology (Diffusion and Adoption)
- Economic Growth
- Economic Disparities
- Poverty & Inequality
- Sustainable Development
- Microfinance
- Social Economics
- Health Economics
- Behavioral Economics
- Experimental Economics
- Applied Micro (broadly defined)

Areas of interest outside of discipline:

- International Business
- Entrepreneurship
- Crowdfunding
- Marketing
- Area Studies relating to Asia, Europe, or Latin America

Expectations for satisfactory completion of an ISP:

- There should always be a final project that is a polished product.
- The project needs to be planned so that the student works consistently throughout the ISP period and is prepared to submit the final product at the end of that time.

Peter Cook
Assistant Professor of Biopsychology

Preferred Method to be contacted:
E-mail: pcook@ncf.edu

Areas of interest within discipline:

- Animal Behavior
- Behavioral Flexibility
- Systems Neuroscience
- Cognitive Neuroscience
- Behavioral Neuroscience
- Memory and Learning
- Rhythm in Brain and Behavior
- Brain Imaging
- Comparative Neurobiology
- Ecological Approaches to Comparative Psychology
- Anthropogenic and Environmental Impacts on Brain and Behavior
- Marine Mammals
- Carnivores

Areas of interest outside of discipline:

- Philosophy of Language
- Philosophy of Mind
- Obscure and Eclectic Fiction
- Parenting

Expectations for satisfactory completion of an ISP:

- Expectations depend on nature of project
- Regular progress reports or meetings

Barbara Feldman
Professor of Sociology

Preferred method of contact:
E-mail: bfeldman@ncf.edu
Office: ACE 232 by appointment.
Schedule an appointment with me at https://calendly.com/drbfeldman

Areas of interest within the discipline:

- Sociology of Family
- Sociology of Gender - specialty Feminism
- Sociology of Culture
- Collective Behavior
- Socialization
- Sociology of Education
- Fads, Fashions and Trends

Areas of interest outside the discipline:

- Open to interests of students that have a sociological approach to social phenomena.

Expectations for satisfactory completion:

Expectations will vary depending on the topic and the interest and nature of the project.
I am open to creative approaches.
Project will be decided collaboratively between me and the student and must be completed by the end of the ISP period.
May include:
Research Paper
Content Analysis
Experience based paper
Powerpoint Presentation

Michael Gorup
Assistant Professor of Political Science

Preferred method of contact:
E-mail: mgorup@ncf.edu
Office: PME 220
Office hours: https://mgorup.youcanbook.me/

- E-mail me with an idea for an ISP first
- If the idea is a good fit, then we will set up a meeting to discuss it
- Once we have met, I will request a written proposal (including a tentative reading list)
- We will then discuss and revise the proposal as appropriate, and I will make a final decision about the ISP

Areas of interest within the discipline:
Political Theory
  - History of political thought
  - Democratic theory
  - Critical theory
  - Political theories of race and empire

Constitutional Law
  - American constitutional development
  - Constituent power and constitution-making
  - Jurisprudence

American Politics
  - Racial politics in the US
  - Prisons, policing, and punishment
  - Social movements and contentious politics

Areas of interest outside the discipline:
- Continental philosophy
- Modern intellectual history
- U.S. political history
- Settler colonial studies
- American studies

Expectations for satisfactory completion of an ISP:
- Regular meetings (weekly)
- The format will depend upon the type of project, e.g.:
  - Directed reading (with a series of short papers)
  - Literature review
  - Primary source analysis
  - Research paper
- Completion of all work by the end of January interterm

Steven Graham
Associate Professor of Psychology

Preferred method to be contacted:
E-mail: sgraham@ncf.edu
Office: BON 015

- Students should have clear ideas about (1) their goals for the ISP, (2) the type of work they want to complete, (3) their expectations of me, and (4) their expectations of themselves before approaching me to sponsor an ISP.
- I have strong preference for ISPs that involve the design, conduct, and reporting of an empirical research project in psychology. I will consider other ISP formats, however.
- I also have a preference for sponsoring ISP research that is IRB approved.

Areas of interest within discipline:

- Social Psychology
- Close Relationships
- Self and Identity
- Psychology of Religion
- Social Cognition
- Organizational Behavior

Areas of interest outside discipline:

- Data Management in the Social Sciences
- Computer Research Methods in the Social Sciences

Expectations for satisfactory completion of an ISP:

- Regular meetings to discuss the project (unless the research is completed off-campus).
- Progress made from the first day of ISP period.
- Final Project: Typically an APA-style empirical research report with revisions based on feedback.

David Allen Harvey
Professor of History and International & Area Studies

Preferred method to be contacted:
E-mail: dharvey@ncf.edu
Office: CHL 231
Phone: 487-4511

Areas of interest within discipline:
- Modern France and Germany
- European labor history and working class formation
- nationality, nation-building, and regionalisms
- social and cultural history
- histories of science, religion, and mysticism
- European imperialism
- French Enlightenment
- Atlantic world
- French Caribbean
- histories of race and racism in western society

Areas of interest outside of discipline:
- I have also sponsored a number of projects involving foreign travel or study abroad, and would be willing to entertain proposals along those lines, provided that the educational component of the travel has been well thought out.

Expectations for satisfactory completion of an ISP:
- Research paper or series of small papers submitted throughout January (normally 15-20 pages of total writing).
- Pre-thesis students in History, International and Area Studies, or related areas may choose to do an annotated bibliography or series of book reviews as a way of working through their intended thesis bibliography.
- For study abroad or travel projects, a shorter paper and a travelogue can be substituted.

Sarah Hernandez
Associate Professor of Sociology & Caribbean and Latin American Studies

Preferred method to be contacted:
E-mail: shernandez@ncf.edu
Office Hours signup through Calendly: https://calendly.com/shernandezncf/hernandez-office-hours

Approach:
- I can best guide students and help you narrow down your topic of study if you develop an initial written proposal from which we can work. This is only the initial step. Modifications will most likely be necessary after we talk about the proposal(s).
- Although we may talk about the ideas, the conversation does not commit me to sponsoring the ISP. This commitment is ascertained only at the moment I sign the ISP form.
- I do not take ISP students after the ISP period begins, nor do I consider last-minute ISP proposals. Therefore, students must have their initial proposals submitted to me before the end of the second week of November.
- Normally, I do not supervise ISPs of students who have not worked with me previously.
- I am always happy to help you pursue your interests. We will set up the framework for our work together as part of the plan of the ISP.

Areas of interest within discipline:
- Social Movements
- Sociology of Work
- Labor Relations/Studies
- Labor movements
- Sociology of Latin America
- Political Economy
- Race/Ethnic Relations
- Sociology of Gender
- Economic and Social Development in various countries
- Sociological empirical research
- Internships that allow students to enhance their knowledge in an area of interest and to combine practical experience with academic learning (e.g., internship or volunteer work with a labor union, at a women's shelter, a research institute, a government office, or diplomatic entity, etc.).

Areas of interest outside of discipline:
- Politics and History of Latin America
- History of Social/Labor Movements
- Service Learning/ Internships

Expectations for satisfactory completion of an ISP:
Expectations will vary depending on the specific project. However, these are examples of possible outputs:
- A well-written research paper (about 30 pages long), with strong synthesis of readings or incorporation of theory and practice.
- A well-kept journal with a good comprehensive analytical piece.
- Equivalent reading of six to eight books (when doing bibliographic research). Fewer readings can be negotiated when combining the bibliographic research with service learning or an internship.

Students must submit the final ISP paper before the start of mini classes.

Barbara Hicks
Professor of Political Science
Division Chair, Social Sciences

Preferred method to be contacted: email
E-mail: bhicks@ncf.edu
Phone: 487-4373
Office Hours in SSC 204: M 3:30-5:00 pm or by appt.

Areas of interest within discipline:
- Transitions to democracy
- Authoritarian Systems
- Russia and Eastern Europe, European Union, China
- Communist and post-communist systems
- Issues in comparative politics (governance in other countries).

Areas of interest outside the discipline:
- The topics listed above have significant cross-disciplinary aspects to them with links especially to area studies, sociology, contemporary history, and political economy.
- I also work with students who complete ISPs abroad, whether as single projects or follow-ups to study abroad.

Expectations for satisfactory completion of an ISP:
- Students should write or come to me with an idea as to what they want to do. After discussing the topic with me, a student will develop a plan for the ISP that includes the type of reading and writing to be done. We'll discuss the plan, and then we'll both decide whether we want to undertake the project.
- All ISPs will have some reading and writing. The types of assignments will vary according to the nature of the ISP. An ISP with a large practical component (e.g., an internship) will have smaller reading and writing requirements. Most academic ISPs will be either research projects or surveys of a broader literature. The former will culminate in a lengthy paper or other written project (e.g., a research paper). An ISP surveying the literature on a topic of interest to the student would likely have a few smaller writing assignments (e.g., three 7-10 page integrative essays). These are only guidelines; students are, of course, free to design their assignments, as long as the design is rigorous and the total ISP project represents about the same amount of work as a regular course.
- My expectations rise with the experience of the student.
- The work for the ISP must be completed by the end of the ISP period.
- I usually do not expect to do ISPs in areas where other faculty members have greater expertise.

William P. Hustwit
Visiting Associate Professor of History

Preferred method to be contacted:
Email: whustwit@ncf.edu

Areas of interest within discipline:
- United States
- Civil Rights Movement
- American South
- Colonial America
- Modern Latin America
- History of race in America
- History of education

Areas of interest outside discipline:
- I would also be willing to sponsor projects related to outdoor education, U.S. foreign policy, and Great Books.

Expectations for satisfactory completion of an ISP:
- Research paper or series of small papers submitted throughout January (normally 15-20 pages of total writing).
- Pre-thesis students in History, or related areas, may choose to do an annotated bibliography or series of book reviews as a way of working through their intended thesis bibliography.

Tarron Khemraj
Professor of Economics

Preferred Method to be Contacted:
E-mail: TKhemraj@ncf.edu
Phone: 487-4422
Office: ACE 230

Areas of Interest within Discipline:

- Special issues and topics in development economics (especially issues relevant to the Caribbean, Latin America and Sub-Saharan Africa).
- Special topics and problems in econometrics.

Expectations for Satisfactory Completion of ISP

- A well-written paper.
- Students, with respect to the econometrics project, would be required to demonstrate that they can execute EVIEWS commands and interpret the printouts pertaining to the specialized topic.
- A plan of activities that maintains work consistently through the ISP period.

Frederick Pirone
Visiting Assistant Professor of Anthropology

Preferred method to be contacted:
Email : FPirone@ncf.edu, Office: ACE 231

Areas of interest within discipline:

- Mediterranean, Aegean, Anatolian, North African, and Middle Eastern Archaeology
- Paleolithic, Neolithic, Bronze Age and Classical Archaeology
- Anthropology of Religion, Cult, Ritual, and Performance
- Culture Change, Human Movement, Trade, and Interaction
- Ancient Diet and Subsistence Practices
- Archaeology of the Senses
- Cultural Property Law and Cultural Heritage Protection and Preservation
- Public Education and Outreach
- Anthropology of Business and Law
- Archaeological Sciences, Archeoastronomy, Acoustic Archaeology
- Visual Ethnography & the Fusion of Creative Expression and Traditional Academic Research
- Digital Archaeology
- Museum Studies

Areas of interest outside of discipline:

- Commercial and Civil Litigation, Real Estate, Business Organizations, Intellectual Property, and Transactional Law.
- Strategy, Entrepreneurship, Activisms, and Organizational Behavior
- Non-profit/Microfinancing (Focus on South America)
- Middle Eastern Studies
- Kabbalah and Jewish, Christian and Islamic Mysticism
- Greek and Roman History
- Visual Art, Photography, Performance Art, and Art History (Particular Focus on Abstract Expressionism, Pop Art, Neo-Expressionism, and Conceptual Art)
- Science of Fragrance/Perfume Making
- Film/Documentary Making, Podcasting, Story Telling, and Content Creation

Expectations for satisfactory completion of an ISP:

- Expectations are dependent on the nature of the project.
- Open to alternative/creative approaches for the final deliverable. Regardless of the final deliverable that is determined, it must be clearly defined so that benchmarks can be established to gauge progress throughout the ISP.
- Regular progress meetings and discussions.

Xia Shi
Associate Professor of History

Preferred method to be contacted:
E-mail: xshi@ncf.edu
Fall Office hours: Tue, Fri 1-2:30pm
Office: ACE 135

Areas of interest within discipline:

- Broadly defined: Chinese history and East Asian History
- Specifically: women, gender, religion, culture and society, Late Imperial China, Republican China, Communist China, nationalism, revolution and reform, charity and philanthropy, environmental disasters response

Areas of interest outside of discipline:

- I have experience in Study Abroad Programs in China. I am willing to work with students who are interested in pursuing studying abroad.

Expectations for satisfactory completion of an ISP:

- A research paper or series of small papers submitted throughout January
- For study abroad or travel projects, a shorter paper and a travelogue can be substituted.

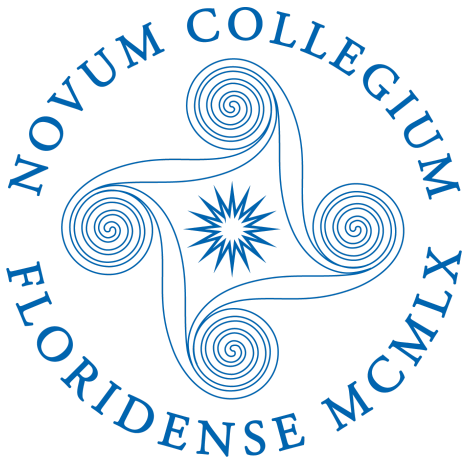
Katherine (Kate) Snow
Visiting Assistant Professor of Environmental Studies

Email: ksnow@ncf.edu

Please arrange for the ISP to be accepted/approved by me no later than Friday, Dec 1

Since environmental studies in inherently interdisciplinary, and I come to academia with a background in the US government prior to my second round of graduate studies, I am flexible and open to a number of areas and potential points of concentration, including in:

- Philosophy of nature
- Early German Romantic philosophy of nature
- The concept of environmental or ecological nihilism
- Romanticism's legacy in the conservation movement and conservation sciences
- Environmental history
- History of science
- Environmental ethics
- Environmental policymaking
- International relations, national security, and the environment
- Relationships between illicit/criminal global actors and environmental decline/preservation



Writing Program

Jennifer Wells
Director, Writing Program

Preferred method to be contacted:
Email: jwells@ncf.edu

Areas of interest within discipline:

Writing studies and related areas adjacent to writing studies including: genres of writing, educational psychology/policy and writing, rhetorical analysis of writing in _____ (e.g., food or travel artifacts), writing pedagogy.

Preliminary requirements:

Students who are interested in a writing ISP should first email me in order to set up a meeting time and bring the following to the meeting: a tentative description of the goals of the ISP, and a reading list (if applicable). Before agreeing to sponsor an ISP, I will need a detailed description of goals, a day by day timeline of activities, which should include WRC appointments, and and proposal for the final project, including agreed upon evaluation criteria.

Expectations for satisfactory progress and completion of an ISP:

In order to be eligible to sat the ISP, students must complete all activities (from daily deadlines to the final project).

Alexandra Maass
Associate Director of Writing

Preferred method of contact:

Email: amaass@ncf.edu

Office: LBR 102

Virtual Office Hours: 10:00-5:00pm (appointments preferred)

Areas of interest within discipline:

writing in the disciplines, writing center studies, analytical writing, creative writing, linguistics studies in writing (particularly language variation, language and culture, and writing systems)

Preliminary requirements:

Students who are interested in a writing ISP should first email me in order to set up a meeting time and bring the following to the meeting: a tentative description of the goals of the ISP, what final project(s) will be evaluated, and a reading list (if applicable).

Expectations for satisfactory progress and completion of an ISP:

Regular meetings (at least once a week) are required. Because students set their own ISP goals, I expect satisfactory progress to be made towards those goals and clear evidence of effort and development throughout the ISP.

Avni Vyas
Instructor of Writing

Preferred method to be contacted:
Email: avyas@ncf.edu

Areas of interest within discipline:

Writing studies and creative writing, including: poetry, nonfiction, rhetorical analysis of writing across genres and subject, writing pedagogy.

Preliminary requirements:

Students who are interested in a writing ISP should first email me in order to set up a meeting time and bring the following to the meeting: a tentative description of the goals of the ISP, and a reading list (if applicable). Before agreeing to sponsor an ISP, I will need a detailed description of goals, a day by day timeline of activities, and proposal for the final project, including agreed upon evaluation criteria.

Expectations for satisfactory progress and completion of an ISP:

In order to be eligible to sat the ISP, students must complete all activities including attendance, participation, writing exercises, and final project.