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General Information

Program Description

Research Rookies provides freshmen, sophomores, and first-semester transfer students with the opportunity to participate in research and artistry initiatives at NIU. By working with an NIU faculty mentor, you have the opportunity to get involved in their potential field of study and ground-breaking research and artistry. Not only will this further your academic success during the initial years of college, it will give you an invaluable experience that will benefit you throughout your future.

Research Rookies are expected to spend approximately 5-10 hours working on their project every week. In addition, there will be monthly meetings to ensure that your project is running smoothly. To conclude the year of work, you must present at Undergraduate Research and Artistry Day (URAD) in April, which gives you the opportunity to present your findings to the academic community.

Program Objectives

The goal of Research Rookies is to provide students with the opportunity to properly conduct academic research and artistry projects and draw reasoned conclusions in their work. The goals for the program are listed below:

- Students will expand and deepen their knowledge of a topic or subject matter of their choosing related to human societies and the natural world.
- Students will conduct academic research that follows the guidelines of best practice, including developing clear research questions or problems, applying appropriate research methodologies, and adhering to the appropriate ethical frameworks.
- Students will draw reasoned conclusions in the findings of their research.
- Students will engage in reflective practice for the purpose of continuous learning and improvement, identifying lessons learned, strengths, and ways to improve.

Research Rookies Administration

All OSEEL staff can be reached at the following address:

Altgeld Hall 100
Northern Illinois University
DeKalb, IL 60115
815-753-8154
ResearchRookies@niu.edu
http://www.niu.edu/researchrookies/

Destiny McDonald
Assistant Director for Undergraduate Research & Program Partnerships
dmcdonald@niu.edu; 815-753-8159

Lauren Anglin
Undergraduate Program Assistant
langlin1@niu.edu; 815-753-8154
Program Components

**Cohort Meetings for Students**

Mandatory cohort meetings are held the first Wednesday of each month. These meetings are meant to give students and staff time to check-in and make sure everyone is on track. At the meetings, important information and resources are given to all students regarding key aspects of successful research at NIU. If a student cannot attend a meeting, he/she must contact the OSEEL staff regarding the absence before the meeting happens. Below you will find a table including all monthly meeting dates for the 2016-17 academic year. *Faculty mentors are not required to attend monthly cohort meetings.*

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<tr>
<th>Event</th>
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<tr>
<td>Fall Semester</td>
<td></td>
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<tr>
<td>Monthly Meeting</td>
<td>Wednesday, August 24</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
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<tr>
<td>Monthly Meeting</td>
<td>Wednesday, September 7</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
</tr>
<tr>
<td>Monthly Meeting</td>
<td>Wednesday, October 5</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
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<tr>
<td>Monthly Meeting</td>
<td>Wednesday, November 2</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
</tr>
<tr>
<td>Reception Practice</td>
<td>TBD</td>
<td>TBD</td>
<td>Altgeld Hall 125</td>
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<tr>
<td>Research Rookies Reception</td>
<td>Friday, December 2</td>
<td>2:30 – 4:30 pm</td>
<td>Altgeld Auditorium</td>
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<th>Event</th>
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<tr>
<td>Spring Semester</td>
<td></td>
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<tr>
<td>Monthly Meeting</td>
<td>Wednesday, January 18</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
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<tr>
<td>Monthly Meeting</td>
<td>Wednesday, February 1</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
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<tr>
<td>Monthly Meeting</td>
<td>Wednesday, March 1</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
</tr>
<tr>
<td>Monthly Meeting</td>
<td>Wednesday, April 5</td>
<td>5:30 – 7:30 pm</td>
<td>Altgeld Hall 125</td>
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<tr>
<td>Undergraduate Research &amp; Artistry Day</td>
<td>Tuesday, April 25</td>
<td>9 am-3 pm</td>
<td>Duke Ellington Ballroom, Holmes Student Center</td>
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<tr>
<td>End of Year Celebration</td>
<td>TBD</td>
<td>TBD</td>
<td>President Baker &amp; Dr. Stover’s Residence</td>
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The pursuit of scholarly activities with undergraduate students brings faculty members some additional benefits that enhance satisfaction with their career and their personal development. These include the following:

- Opportunity to renew and reinvigorate enthusiasm for working with undergraduate students
- Intellectual stimulation and confidence associated with creative and critical thinking
- Excitement created by intellectual activity
- Opportunity to establish or re-invigorate a research, scholarly, or creative program
- Opportunity to promote and model lifelong learning to students and colleagues
- Internal and external recognition.


**Faculty Mentor Selection Process for Students**

Students are giving the following procedure/instructions for selecting their faculty mentor:

“To choose a faculty mentor, look through the faculty members in your degree department and read about their research. Take note of three faculty members whose research interests you. Once you have selected the three faculty members, send your list to the OSEEL staff. The OSEEL staff will email the faculty members you have selected to introduce you and Research Rookies; you will be CCed on these emails. Once the OSEEL staff has emailed the faculty members you selected, you should immediately follow up (no more than 48 hours later) with an email to each faculty member (a template will be provided). Whenever you are contacting faculty, remember to be formal, writing in a professional manner.

“When you hear back from your potential faculty mentors, set up a meeting with each of them so you can further discuss their research and make sure the situation is a good fit for both you and the faculty member. Dress and act professionally for these meetings. Once you have decided on a faculty mentor, inform the OSEEL staff of your choice. When the OSEEL staff confirms your match, you will be notified so that you can reach out to your faculty mentor to set up a regular meeting schedule and begin developing your research/artistry topic. It is also a good idea to follow up with the faculty members you did not select to let them know you appreciate the time it took for them to meet with you. It is also a good idea to follow up with the faculty members you did not select as your faculty mentor; let them know you appreciate the time it took for them to meet with you.

“Communicating sufficiently with your faculty mentor is vital to your success in this program, so make sure to keep the lines of communication open. If you are having trouble communicating with your faculty mentor, let the OSEEL staff know immediately.
**Faculty Mentor Roles and Responsibilities**

Faculty mentors are to guide the students through the research or artistry process. Research Rookies helps each student identify a faculty mentor to:

- Provide learning resources and necessary tools for the research/artistry project
- Meet with the student to plan and complete the project
- Attend the Faculty Mentor Orientation Luncheon (Only required for new Research Rookies Mentors)
- Discuss aspects of academic and research life with student while working with the student on research
- Assist the student with preparation of project materials for Undergraduate Research & Artistry Day (URAD)
- Attend major research presentations that the student makes on the NIU campus (i.e. Undergraduate Research and Artistry Day)
- Notify the OSEEL staff as needed of student progress, performance, change of research focus, or any problems in the mentoring relationship

**Continuum of Project Proposal Designs**

Included below is a continuum of undergraduate research and artistry projects that former Research Rookies have designed and executed. Although we acknowledge that some students have completed a student-only designed project (right-side of the continuum) in the past, most of the Research Rookies complete projects designed and initiated by the faculty mentor (left-side of the image). Given the nature of the program and the limited time to complete a research project, it is highly recommended that students work on projects designed by the faculty mentor.
Project Proposal

The project proposal helps to focus you the student before getting started. The completed proposal shows OSEEL and the faculty mentor that the student knows about the project, its purpose, what will be done throughout the program, etc. The project proposal also provides a good base for the information that will later be presented at the Summer Research Symposium. Below is an outline for the project proposal:

Project Proposal Guidelines

1. Abstract
   The abstract should be a brief description of the project, its objectives, and expected results. The abstract should be written for an educated but not expert audience. Please limit this section to 250 words or less.

2. Project Description (limit 6 pages, double spaced)
   The project description should be a clear statement of the work to be undertaken, using the five headings (A-E) below. It should be no more than six (6) double-spaced pages long with 10-point to 12-point font and 1-inch margins. Please note: While the mentor should be consulted, it is the student’s responsibility to write the proposal in his/her own words, and not copied from a website, article or other work. Plagiarism is cause for removal from the program.

   a. Background and Context: Explain the present state of knowledge, understanding or creative experimentation in the field with proper citations of pertinent literature where appropriate. (See Literature Cited, section III). Make it clear why the research or artistry project needs to be undertaken to fill a gap in knowledge. In addition, highlight how the project pertains to leadership, research, and/or civic, social, and global engagement.

   b. Statement of Significance and Impact: Explain the significance of the project as it contributes to the advancement of learning within the field (i.e. the big picture), to the enrichment of our cultural and aesthetic heritage, to the public welfare (i.e. the greater good) and/or to other research conducted within the same lab or unit.

   c. Statement of Project Objectives: Clearly and concisely state the research question or creative concept that will be addressed during the period of the proposed project.

   d. Methods: Describe, in clear and understandable terms, the general plan of work in order to fulfill the stated goals and project outcomes.

   e. Outcomes: What are the expected results or the expected range of results? What happens if the data does not yield the results you expected? How will “other” results be interpreted? For creative projects, what will be the final product of the proposed project? Possible products are a report, a publishable article or chapter, a performance, a policy recommendation, a painting, etc. Be specific. Please note: Research Rookies requires a final presentation at Undergraduate Research & Artistry Day (URAD). It is up the faculty mentor’s discretion for additional, required final products.
3. **Literature Cited** (This is not included in your 6 page limit)
   Include a list of references that are cited in the abstract and/or proposal, especially in section A. Use standard professional format such APA style for your literature citation (field appropriate).

4. **Impact on Academic Experience** (This is not included in your 6 page limit)
   Indicate how the proposed independent artistry or research is expected to enhance the specific student’s academic experience.

5. **Timelines of Project Activities** (This is not included in your 6 page limit)
   Provide a timeline of activities throughout the program. Include specific benchmarks to achieve throughout the academic year (such as literature search, data collection, data analysis, and final product preparation to name a few). **This timeline should be on a weekly or bi-weekly basis.**
   **Timelines written in narrative form will not be accepted.**

**Library Resources**

In order to write the research, students may need to find published journal/scholarly articles that provide background on the proposed topic. The Founders Memorial Library offers a variety of research resources. Some of these resources include: the NIU online catalog, interlibrary loan, requesting services (NIUILLiad), scholarly article databases, and subject specialists.

- The NIU online catalog is used to quickly find appropriate books, magazines, articles, etc on the inputted information. The catalog can be accessed by visiting this web address: [http://vufind.carli.illinois.edu/vf-niu/](http://vufind.carli.illinois.edu/vf-niu/).

- Interlibrary loan is used when checking out a book, magazine, or other source that is not found at the NIU library. The student or mentor must then file an NIU ILLiad request ([https://niu.illiad.oclc.org/illiad/JNA/logon.html](https://niu.illiad.oclc.org/illiad/JNA/logon.html)). Make sure to have all pertinent information about the requested source. Once the request has been processed, the library staff will send a notification email when the request has been filled.

- The library also has article databases that contain articles that have been published in various scholarly journals and other sources. Log onto [http://libguides.niu.edu/find](http://libguides.niu.edu/find) to search for articles by subject. Then search for the specific topic through the search field.

- Subject specialists are extremely important because they understand the fundamentals for their given subject and are able to assist in finding appropriate material for the project proposal.

If the student or mentor has any questions, there is help online through the “Ask-A-Librarian” chat window or contact your subject specialist.
**Peer Mentors**

Each new Research Rookie has been assigned to a small group led by a peer mentor who has been through the program before. Peer mentors are meant to serve as guides and resources for first-year Research Rookies. Peer mentors are responsible for:

- Assisting with questions or concerns from small-group members
- Obtaining progress reports from small-group members
- Coordinating one group activity per month with small-group members
- Notifying OSEEL staff of any issues with small-group members

**OSEEL Reception**

Towards the end of the first semester, OSEEL has a welcoming ceremony for all students who are participating in their programs, including Research Rookies and their faculty mentors. It is an opportunity for students to get to know each other and the faculty they will be working with, as well as some of NIU’s administrators and special guests that support OSEEL programs. Research Rookies are asked to dress in business casual attire and be prepared to give a very brief introduction to their project and faculty mentor.

**UNIV 105 Course**

A specialized section of *UNIV 105: Introduction to Library and Information Research* is available just for Research Rookies. The course introduces students to the basic processes involved in research. Overall, it is a great way for them to get connected to resources. OSEEL strongly recommends all first-year Research Rookies to enroll.

**Undergraduate Research and Artistry Day (URAD)**

Undergraduate Research and Artistry Day (URAD) is an annual showcase and celebration of the outstanding research and artistry projects that undergraduate students have participated in throughout the academic year. You have the option to present your work in a poster, exhibit and digital media display or 15-minute oral presentation session. Each project is judged twice, and awards are given to the 1st, 2nd, and 3rd place projects in two categories: Arts, Education, Health, Humanities, and Social Sciences (AEHHSS) and Science, Technology, Engineering and Math (STEM). In addition, a People’s Choice Award is given out based on audience votes. URAD is free and open to the public, so we encourage you to invite friends and family. For a detailed list of what the judging criteria are, you can go to the URAD website (go.niu.edu/URAD).

**URAD Project Production**

Putting together a URAD presentation takes a lot of time and energy, so we encourage both students and faculty mentors to start the process early. Use the project proposal as a basic guideline, since it contains some or all of the parts that should be considered when planning for your presentation. OSEEL staff will provide workshops on presentation options during the Spring semester, which are also available online through the URAD website (go.niu.edu/URAD).
**Printing**

NIU has its own printing service that students can use to have their poster printed. However, the Creative Services team is always very busy around the time of Undergraduate Research and Artistry Day. Thus, we encourage the Research Rookies to turn in their poster document early. It is also extremely important that the poster is error-free when sent, given there is funding for only one copy to be printed.

Many of the departments have their own printing services, as well. Students, if able, can print using the department’s printing services but we strongly encourage students to print by the Creative Services deadline, usually in the first week of April.

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**Undergraduate researchers learn tolerance for obstacles faced in the research process, how knowledge is constructed, independence, increased self-confidence, and a readiness for more demanding research. These benefits are an advantage in any career path.**

— Lopatto, David. 2010. Undergraduate Research as a High-Impact Student Experience. Peer Review.

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**Office of Research Compliance and Integrity**

The Office of Research Compliance and Integrity ensures that all research done through NIU follows specific guidelines and does not endanger any participants. NIU holds its researchers to extremely high standards so that the integrity and safety of NIU is not jeopardized by any research. Depending on the research you are conducting, you may need to go through the IRB process (i.e. Biosafety, IACUC, or Human Subjects). A brief description of each is provided below, and more detailed information can be found via the Office of Research Compliance and Integrity website. **Determine if you need to fill out any of these forms before you start your research at the beginning of the year because you cannot do your research until it has IRB approval.**

- **Biosafety:** If you are participating in research involving recombinant DNA, and/or pathogenic substances, you will have to go through the Biosafety review process. Contact the OSEEL staff or Jeanette Gommel from the Office of Research Compliance and Integrity for more detailed information.

- **IACUC:** IACUC focuses on NIU’s want to ensure the safety of any live, vertebrate animals used in university research. If any of your research involves animals, you will have to submit the IACUC form to prove that the animals are not put in any unnecessary harm. Contact the OSEEL staff or Jeanette Gommel for more information.

- **Human Subjects:** Any research involving human participants needs to be approved via the IRB process. Even if you are conducting a simple survey, IRB approval is necessary. Contact the OSEEL staff or Jeanette Gommel for more information.

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**Mentoring has been recognized as the social foundation of research, “without it the trainee is designed to traverse the labyrinth of professional development in the research enterprise as a solitary soul, making it all but impossible to reach full potential. It is the best mentor who draws the best from the junior person by acting as an advisor, teacher, role model, motivational friend, and supportive advocate.”**

— Vasgird, D. 2004. RCR Mentoring: Responsible Conduct of Research
Expectations and Responsibilities

**Attendance Policy**
Attendance is taken at every Research Rookies meeting due to the importance of the information discussed. If a student cannot attend one of the meetings due to a conflict or illness, s/he must contact the Research Rookies staff prior to the meeting so that a makeup meeting can be scheduled. If a student does not contact the OSEEL staff prior to the absence, the absence will be unexcused. Each unexcused absence will result in a 10% stipend deduction. If the student has more than three (3) unexcused absences from meetings or events, s/he may be released from the program.

**Time Commitment**
Students are expected to spend 5-10 hours per week for their research. If you, the faculty mentor, notice your student having difficulty committing this time to the research project, please contact the Research Rookies staff. The weekly time commitment can include writing the project proposal, conducting a literature review, working with a Graduate Assistant, working in the lab or other works space, or spending one-on-one time with the faculty mentor.

**Student Blog**
Research Rookies are required to create a blog and update it at least once a month. Blog prompts will be provided, and pictures are encouraged.

**Grade Point Average Policy**
Research Rookies are held to a higher academic standard. This means that students are responsible for maintaining a 3.0 GPA. Participating in research is a privilege that needs to be worked for, but cannot interfere with academic success. If students do not maintain the 3.0, we will work with them to create an academic plan for future semesters. If you, the faculty mentor, notice or have concerns regarding your student’s academic performance, please don't hesitate to contact the OSEEL staff.

**Compensation**
Students will only receive $500 in compensation at the end of the program if following requirements are met:
- Present at Undergraduate Research and Artistry Day
- Good academic standing at the end of the school year
- Less than three (3) absences during the academic year

**Email Communication**
Email is the main form of communication used by the OSEEL (Office of Student Engagement and Experiential Learning). Emails can be sent to ResearchRookies@niu.edu for specific Research Rookies questions, or to ugresearesearch@niu.edu for other research-related questions. These resource mailboxes are checked regularly by the OSEEL staff.
Plagiarism

Research Rookies is an academic community that strives for academic honesty, integrity, and originality. All Research Rookies are advised that presenting another’s work as your own, even if by accident, is a serious violation of university policy and the Student Code of Conduct. The Student Code of Conduct identifies the following as acts of academic dishonesty: “The term ‘plagiarism’ includes but is not limited to the use, by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. Plagiarism also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials” (p. 17). Suspected cases of plagiarism will be investigated and dealt with by the Program Director and the Office of Community Standards & Student Conduct.

Additional Opportunities

Undergraduate Special Opportunities in Artistry and Research (USOAR)

USOAR is a program that funds student-generated research or artistry projects, whether the study is conducted on campus, somewhere else in the United States, or overseas. Students whose proposals are selected are granted up to $2,500 to carry out their project. Students have between January 1 and December 31 to complete their USOAR project and must submit documentation (final report, receipts, and pictures) to OSEEL within 6 weeks of completion of their project. USOAR funding is for project-related expenses only (e.g., conference registration, accommodations, equipment, etc.), not personal compensation.

Summer Research Opportunities Program (SROP)

In SROP, students will learn what research looks like in their field of study, learn how to write a formal research proposal and gain experience working alongside talented faculty at NIU. They will also receive housing, meals, and a generous stipend. Please note: Students participating in SROP are required to live together in the residence hall; participants cannot take summer classes or work another job for the duration of the program.

Student Engagement Fund (SEF)

All NIU undergraduate students can apply for stipends to work on faculty-mentored research projects and travel to conferences. College of Liberal Arts and Science undergraduates can apply for additional funding to cover a wide range of expenses related to a student engagement activity. Requests need to be for a minimum of $250. Undergraduate students may apply on their own behalf. Faculty can apply for funding on behalf of students working on research projects or service learning projects. Faculty can also apply for funding on behalf of students to be used for group travel expenses and student expenses for conferences and competitions.