JAMES SCHOLAR PROGRAM
FOR INDEPENDENT STUDY
# JAMES SCHOLAR PROGRAM FOR INDEPENDENT STUDY

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I. BACKGROUND INFORMATION

The James Scholar Designation is given to students who have demonstrated academic excellence, formally identified by their colleges as honor students. They are granted certain privileges to facilitate their education. Criteria for admission, retention, and graduation are established by the individual colleges. Designation by the University as a James Scholar recognizes the students’ extraordinary ability and achievement. It entitles students to certain academic privileges and charges them with the responsibility for seeking sustained intellectual achievement throughout their undergraduate medical program. In addition, they are encouraged to pursue individual scholarly interests through independent study and research projects.

The James Scholar Program for Independent Study within the College of Medicine was established in 1967. Admission criteria are left to the particular regional sites, but requirements for graduation are set by the College of Medicine. The James Scholar Program for Independent Study at the University of Illinois College of Medicine at Peoria began in 1973.

In 2017, the University of Illinois College of Medicine curriculum implemented the new Illinois Medicine Curriculum across the three campuses (Chicago, Peoria, and Rockford). The new curriculum is a single, College wide curriculum with all campuses using identical learning objectives, content blueprints, and assessments developed collaboratively by faculty from all campuses. Furthermore, the summative assessments implemented College wide in Phase 1 of the curriculum will be reported on the transcript as Pass or Fail. Along with the curricular transformation efforts, the James Scholar Program also underwent review across campuses. In keeping with the philosophy of having a comparable curriculum across campuses, the James Scholar Committee leadership across the three campuses came together to develop a similar admission process and criteria for the James Scholars Program.

II. PHILOSOPHY AND GOALS OF THE JAMES SCHOLAR PROGRAM

Philosophy of an Honors Program

The goal of an honors program is to match faculty with the best inquiring students to challenge each student to the limit of his/her capacity. Encouragement and opportunity are needed to assure that the brightest students will be challenged during their education.

Philosophy of an Independent Study Program

Independent study encourages the individual to focus on special needs, goals, desires, or interests. It promotes the qualities of intellectual independence, self-motivation, and scholarship, and allows utilization of the widest range of possible resources. It fosters the development of special talents and abilities. Independent study offers the opportunity for unusually creative, imaginative, and willing students to deviate from the standard path and pace of instruction, to develop a learning strategy that best suits the student's educational and research goals and interests. It is a special pathway to do things that ordinarily might not be possible within the regular curriculum. It does not mean absence of all parameters and guidelines, but rather provides a means of liberation from the limitations imposed by formal curriculum and an increased opportunity for self-directed learning.

Philosophy of Study-in-Depth

Study-in-depth allows the development of an important, meaningful, and significant proposal investigating
some aspect of medicine. It facilitates a furthering of the body of knowledge and the development of intellectual curiosity, gaining new insights, and the ability to discriminate quality of prevailing research. It fosters scholarly study and investigation that can be accomplished during the undergraduate medical program. It may allow meaningful contributions to our understanding of disease or science and may well broaden the student's career opportunities. It ultimately enhances the quality of the performance of each scholar.

In summary, the James Scholar Program is an academic honors program for highly qualified students, which stresses independent study and requires a study-in-depth. It is not merely a special project or unusual clerkship experience, but rather an approach to one's entire undergraduate medical education. The goals of the James Scholar Program are to promote the qualities of intellectual independence, self-motivation, and scholarship in students, and to enable the development of in-depth knowledge in some area of medicine.

III. POLICIES AND GUIDELINES

Criteria for Admission

A similar college wide selection criteria was developed with the rollout of the new Illinois Medicine Curriculum. The selection criteria used in Peoria are as follows:

1. Academic excellence and thoughtful, in-depth completion of application form. Application acceptance is limited to 25% of Peoria M1 class.
2. A high level of maturity and self-motivation.
3. An interest in pursuing problems in greater depth than is usually possible in conventional studies.
4. Acceptance of the criteria for graduation from the James Scholar Program.

Application Procedure

Guidelines for Phase I (M1 students) wishing to apply for the James Scholar Program are as follows:

(a) Students will be invited to complete an application process that includes:
   1. Completing on-line application (word document) by due date stated.
   2. Letters of recommendation as stated including documentation of good academic standing.
   3. Updated CV

(b) Students should pass the end of block and longitudinal courses and exams in the first attempt and adhere to the professional standards of the institution to be eligible to submit their application in Phase I.

Committee Action Regarding Proposal developed in Phase I (see time line appendix B)

(c) The James Scholars Committee will review the application using preset criteria.
(d) Selected students will be invited to submit their research proposal for consideration for acceptance as James Scholar

Following submission of the research proposal, and after evaluating the candidates James Scholar proposal the Committee may:

(e) accept the candidate as a provisional James Scholar,
(f) accept the candidate as a provisional James Scholar with revisions to the study-in-depth,
(g) invite the candidate to resubmit with major revision to the study-in-depth
(h) invite the candidate to submit a new study-in-depth on a different topic,
(i) reject the study-in-depth without inviting the candidate to resubmit.

Final Committee action regarding provisional status will come no later than the end of the M1 academic year.
Criteria for Admission - James Scholar Program:

**M-1**

Application
+
Letters of Recommendation
1. Academic Advisor, 2. Mentor or faculty

Status of a James Scholar continually depends on:

1. Pass all curricular blocks, all exams, all longitudinal studies, all USMLE & NBME exams - in the first attempt.
2. Maintain the required standards of professionalism.
Final Acceptance

After provisional acceptance as a James Scholar, the student will have a period of time stated by the Committee for the purpose of developing a final protocol for the study-in-depth, and securing the final written commitment from the student mentor to support, advise, and help design the final study-in-depth period. In cases where further evaluation of the study-in-depth is needed, a consultative faculty opinion may be sought locally or elsewhere within the University of Illinois College of Medicine. Toward the end of the provisional period, the James Scholar mentor will submit a letter to the Committee indicating approval of the study-in-depth and commitment to support and advise the student through the execution of the project. On receipt of such advice and after evaluation of the study-in-depth and continued student academic performance, the Committee then will consider designating the scholar as a full James Scholar. Final acceptance by the Committee will be communicated to the student and mentor by written approval from the chairman of the James Scholar Committee. Should the plans be judged inadequate, or should academic performance or professionalism standards be marginal, the Committee may choose to not advance the provisional scholar to full status or rescind the appointment as a James Scholar.

Curriculum

Most James Scholars at Peoria take all of the courses that are required of other students. The James Scholar will have an academic advisor who may or may not be the project mentor. In addition, with the guidance of a mentor, they develop a research project or study-in-depth which is a scholarly project.

Once chosen into the program, the scholar should keep in constant touch with the Office of Academic Affairs concerning the blocks of time spent on various segments of the curriculum and research. At least three times each year scholars are required to present reports of progress to the James Scholar Committee.

Role of the Mentor

The James Scholar mentor shall supervise and sponsor the study-in-depth. The mentor will also help plan the James Scholar Proposal or help secure appropriate co-mentors. Co-mentors may be needed for research or study-in-depth in the basic science areas, or adjunct mentors may be needed at another site removed from the Peoria campus. The mentor will also help the scholar prepare for the presentation of the study-in-depth and help secure support and recognition for the scholar and the project. The designation as a James Scholar mentor carries with it added faculty distinction and responsibility. Selecting excellent James Scholar mentors serves the purpose of matching the best faculty with the best inquiring students. Guidance of the James Scholar requires special talent for providing counsel without usurping the independence of the given scholar. The mentor should help the James Scholar plan the study-in-depth and should periodically review progress in the study-in-depth. The mentor will provide a written assessment at least three times each year prior to the formal progress review meetings of the James Scholar Committee.

Responsibilities of the Committee Chairman

The responsibilities of the Chairman of the James Scholar Committee are as follows:
1. To act as liaison on behalf of the program with students and individual faculty members.
2. Establish dates and agendas for James Scholar Committee meetings, including progress review meetings.
3. To report to the Peoria Curriculum Management Committee and the Executive Committee relative to the Peoria James Scholar Program.
4. Participate in cross campus James Scholars Leadership Committee.
5. To receive formal and informal reports on James Scholars and respond appropriately.
6. To submit documents relative to the James Scholar Program operation, policy, and philosophy to the James Scholar Committee for comment and approval.
7. To participate with the Office of Academic Affairs in orientation of prospective and new students with regard to independent study options on the campus.
8. The Chairman may designate a Subcommittee on Project Evaluation to review carefully the study-in-depth and submit its evaluation as to the quality of the study-in-depth to the James Scholar Committee. The designated chairman of the Subcommittee on Project Evaluation may enlist the assistance of experts from the College of Medicine familiar with the subject matter of the study-in-depth to assist in judging its merits.

James Scholar Committee

The Committee is composed of faculty members with a history of significant research accomplishment. The staff person is the office manager located in Academic Affairs. The Committee functions in both an advisory and administrative capacity. It is the judge of those who are admitted, retained and/or graduated as James Scholars, and has formulated an evaluation protocol used in recommending scholars for retention, and/or graduation. The James Scholar Committee performs its functions through a series of meetings distributed throughout the academic year, including meetings to select new James Scholars, progress review meetings, and meetings to review scholars for retention and/or graduation.

Evaluation Protocol

James Scholars will be evaluated according to the following guidelines:

I. Objective Evaluations
   A. The Independent Study Program student shall be required to pass all curricular blocks, all block exams, all longitudinal courses, all USMLE & NBME exams, and there must not be any professionalism violations for the duration of undergraduate medical education.
   B. Scholars’ course and clerkship performances are expected to be in the upper one-third of their class.

II. Subjective Evaluations
   A. The James Scholar student shall, at the end of a significant association with his/her mentor, receive a research performance evaluation.
   B. Should problems arise, the first line of communication must be between the scholar and his/her mentor.
   C. Scholars are expected to adhere to high professionalism standards of the College of Medicine. Lack of adherence to professionalism standards could result in dismissal from the program.

III. Study-in-Depth
   A. The James Scholar shall be required to show special competence/interest in an area of his/her choosing by the completion of the study-in-depth. The study-in-depth is defined as scholarly activity in a healthcare related subject which may be an observational or experimental design and is valid for interpretation of the question, utilizing appropriate controls and methodology. It may involve clinical, instructional, translational or basic population and epidemiological aspects and run the gamut of subjects (i.e., basic science, clinical application, medical ethics, forensic medicine, public health, medical education, medical literature, etc.). It must result in a document (paper, computer program, film, video, photographs, etc.).
   B. The research is concluded with an abstract or a paper presented at symposia or specialty meetings, accepted for publication in a peer-reviewed journal, or approved by a panel of faculty experts.
   C. The scholar may not make major changes in the area of the study-in-depth nor collaborate with another student toward completion of the study-in-depth without prior approval from the James Scholar Committee.
D. Successful fulfillment of the study-in-depth requirement and recommendation of the scholar for graduation as a James Scholar will be made by a decision of the full Committee at the spring meeting prior to graduation.

IV. Assurance of Due Process
A. In the event that a conflict cannot be worked out between the student and the mentor, or in the event of some other extraordinary circumstance, the Committee as a whole shall exercise due process to resolve the problem.
B. To assemble a Committee under this clause, the mentor and the chairman must agree that this is the action to be taken.

V. Retention Requirements
Requirements for retention as a James Scholar are as follows:
A. For continuation beyond the M-2 year, scholars must perform satisfactorily in all segments of their M-2 curriculum and have their study-in-depth fully approved.
B. For continuation beyond the third year, the scholar must perform satisfactorily in all segments of their M-3 curriculum and shall have the study-in-depth well underway.
C. Two weeks prior to the Spring James Scholar Committee meeting in the M-4 year, the scholar shall have completed the study-in-depth and presented the results as defined under the evaluation protocol.
D. Students will be expected to do an oral present of their research project during the Annual Research Day during their Phase 3 (M4 year).

If the James Scholar fails to attain the requirements for continuation in the program, he or she may be placed on probationary status and given a period of time to correct specific deficiencies. If these deficiencies are not corrected, the student may then be removed from the James Scholar Program, losing the prerogatives enjoyed by such students.

VI. Promotion
A. At the spring meeting of the Committee on Student Promotions of the UICOM-P, the designated representative of the James Scholar Program shall submit a list of scholars in good standing.
B. All scholars are to be considered in good standing unless an action has been taken under the Retention Requirements (Section V).

VII. Review of Evaluations
Objective evaluations, subjective evaluations, and progress in the study-in-depth will be reviewed at least three times yearly at progress review meetings of the James Scholar Committee. This will include a report from the scholar and mentor. Requirements for retention in the James Scholar Program, as well as requirements for graduation, are outlined below.

Requirements for Graduation as a James Scholar

For certification as a James Scholar upon graduation, the scholar must have fulfilled the following requirements:

1. Maintain satisfactory performance in the scholar's independent study curricular segments.
2. Pass all curricular blocks, all block exams, all longitudinal studies, all USMLE & NBME exams, and there must not be any professionalism violations for the duration of undergraduate medical education.
3. Complete and submit an acceptable study-in-depth as defined under Evaluation Protocol.
4. Complete required Phase 1, 2, 3 (M-1, M-2, M-3, and M-4) curriculum requirements as assigned.
In the event that a student resigns or is dropped from the James Scholar Program that student will be required to satisfy all regular requirements for promotion or graduation. This might involve taking examinations previously skipped as well as taking additional clinical rotations.

**Prerogatives of the James Scholar**

James Scholars are asked to meet stringent entrance criteria and demonstrate increased academic rigor. In return, James Scholars enjoy certain privileges to facilitate their medical education. These benefits include special seminars or colloquia, travel awards, mentorship and recognition at graduation.

**Study-in-Depth Support**

Wide variability exists regarding the need for financial support to sponsor studies-in-depth. Not all studies-in-depth need major funding. Theses, literature reviews, case reports, and certain clinical studies might qualify as scholarly activity and yet require little in the way of funding. For those projects requiring financial support, several possibilities exist. While there is at present no fund to specifically provide financial support for James Scholar studies, some possible sources include internal funding from MSP funds, support drawn from the mentor's research grant, internal funds from specific departments, grants, or unrestricted gifts obtained from extramural sources. At present under University regulations, James Scholars are not permitted to receive stipends (i.e., receive a salary) to conduct research which will be used to fulfill or complete the James Scholar research project. It is permissible, however, to use acquired funds to directly support the purchase of supplies, experimental animals, equipment, support services, etc. for use in the James Scholar study-in-depth.
JAMES SCHOLAR PROPOSAL OUTLINE

Title Page

Table of Contents

Abstract
200-300 words describing the proposal in plain language
Background,
Objective,
Study method
   Design
   Subjects
   Procedure
   Measurement
   Analysis

Budget
   Equipment, Materials and Supplies
   Salaries
   Travel
   Other

Role of the Student (list of activities, such as the following)
   Development of the Project
   Study Design
   IRB Application and Process
   Obtaining Informed Consent
   Clinical Examinations
   Laboratory Work
   Chart Reviews
   Data Management
   Funding Application
   List of Collaborators and Their Roles

Biosketch of Investigator (Student)

Letter of Endorsement from Mentor

The Body of the Proposal
The body (objectives, background and significance, methods) of the James Scholars study-in-depth will be double-spaced using a 12 pt font with a maximum of 8 pages. The maximum of 8 pages does not include abstract, budget, role of the student, biosketch of investigator or letter of endorsement from mentor or appendices.

Objectives (Aims) of this Project (0.5 pages or less double spaced)
Background and Significance (2-3 pages)
Study Methods (2-4 pages)
Background and Significance (2-3 pages)
Provide the scientific background information to support the objectives of the study. Include references that provide the rationale for the project or procedure to be used. Describe the research problem with significance explicitly stated. Evaluate current knowledge. State the limitations that have hindered prior research. Describe how this project will contribute to the field. Demonstrate the study is feasible.

Study Methods (2-4 pages)
Study design:
Give an overview of design and conceptual framework. State the hypothesis in context of research protocol.

Subjects:
Give the rationale for the sample size. Estimate the number of subjects, age (inclusive), sex (estimate M:F ratio). Describe the population from which the sample will be drawn. State the inclusion/exclusion criteria for subjects. Include the procedure to recruit subjects. Attach any recruitment or advertising materials. Describe the theoretical risks or potential benefits to (1) research subjects, (2) others. Describe alternative treatments to patients.

Procedure:
Outline the research procedure to be followed. Include a proposed time line.

Measurement:
Describe how the descriptive, control, predictor, outcome variables will be measured. (Use the Variable Table on Page 11, first 3 columns.) Include any forms that would be used as an audit form for a chart review. Include a description of each laboratory measure if there are to be specimens analyzed. Include the instrument for tests and surveys in an appendix and describe any validity or reliability that is available. If the study includes establishing validity and reliability, state how it will established.

Analysis:
State how the study variables will be used to describe the sample, determine findings or test the questions/hypothesis. Include an analysis plan.

IRB:
State whether or not IRB approval will be sought for the study. Comment on precautions and safeguards to be taken to insure the welfare of subjects and minimize risks with particular attention to vulnerable populations.

Innovation:
How will this study-in-depth contribute to the medical literature in ways that are not presently known?

Appendices: as appropriate (such as variable table, copies of instruments, etc.)
JAMES SCHOLAR CHECKLIST FOR EVALUATING STUDENT RESEARCH PROPOSALS

When evaluating your assigned James Scholar project, please feel free to add lines for comments.

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<td>Sample size and rationale</td>
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<td>Are the variables described and included in the variable table?</td>
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<td>Does this study-in-depth have the potential to contribute new, innovative understanding in the medical literature?</td>
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EVERY VARIABLE in your study should appear somewhere on the variable table.

A variable may be used as more than one function statistically; for example, age may be a descriptive variable and should groups differ on age, then age may be used as a covariate or control variable.

When a variable is used as more than one function, list the variable completely under the first function then reference it under the second function. For example, age may be a descriptive variable and later used as a covariate.

Functions

- **Descriptive** - Variables used to describe the sample typically all in Table 1
- **Outcome** - Variables defined in objectives, hypothesis, study questions which are final outcomes of study such as blood pressure, time to event, etc.
- **Predictor** - Variables which may be manipulated in the study such as experimental vs. control condition, also variables which influence the outcome as age of subject, stage of illness
- **Other Variables** - Variables typically used as control variables which are not of primary interest but may influence the outcome as age, or when study groups are different in experience and that variable may influence the findings

Type of Variable

- **Nominal** - Categories with no hierarchy, such as color of hair, sex, ICDA9 code
- **Ordinal** - Categories with hierarchy as pain (none to severe), sleep quality (poor to excellent), frequency of symptoms (infrequent to frequent)
- **Interval** - Categories with hierarchy and distance from one interval to next the same as inches, pounds, millimeter, grams, years, days
# JAMES SCHOLAR VARIABLE TABLE

**James Scholar Name:**

**Date:**

<table>
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<td>How will you obtain each variable?</td>
<td>Limit is 40 characters</td>
<td>10 letters / #</td>
<td># code, not letters; make them short</td>
<td>Interval/Ordinal/Nominal Date</td>
</tr>
</tbody>
</table>

## Descriptive

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## Outcome

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## Predictor

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## Other Variables

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Rev. 3/2018
M1 Application for the James Scholar Program

The James Scholar Program is an honors program that accepts up to 25% of each class. If you are accepted to the program, you must currently have and maintain good academic standing.

As a part of the application process, you may be expected to complete an interview with members of the James Scholar committee.

Please return completed application, Letters of support/recommendation and curriculum vitae (CV) to University of Illinois College of Medicine Peoria James Scholar Program Coordinator Valerie Bricka at vbricka@uic.edu by January 4, 2022.

Applicants will be informed of the James Scholar committee decisions by February 1, 2022.
RESEARCH HONORS PROGRAM ACKNOWLEDGEMENT OF REQUIREMENTS

As a medical student interested in enrolling in the James Scholar Research Honors Program, I understand that there are certain requirements to be met as follows:

- I must be in good academic standing at the College of Medicine at my campus. Failure to maintain good academic standing may result in my dismissal from the James Scholar program.
- I am expected to meet all program deadlines for proposals and progress reports.
- I will be expected to attend all James Scholar meetings.
- I must present a poster of my James Scholar research at Research Day in my 3rd or 4th year and must attend Research Day Judging. Failure to participate in Research Day may result in my James Scholar eligibility being rescinded.
- I must complete and present a PowerPoint presentation to the James Scholar committee and other James Scholar students at the end of my 4th year.
- I must complete an original research manuscript describing my scientific work and submit this to the James Scholar Committee. Manuscripts such as literature reviews, case reports, small case series and chapters DO NOT meet the qualifications for this requirement. It is strongly encouraged to submit the manuscript for publication in a peer reviewed scientific journal, but this is not required.

I hereby certify that I understand all the above requirements.

_______________________________________
Student Printed Name

_______________________________________
Student Signature

________________________
Date
James Scholar Application

Please complete the following questions and provide materials requested in a word document to vbricka@uic.edu. Past research experience is not a requirement for this program, however it does help us to understand what research experience you have had in evaluating your answers to the application questions.

1. Describe how you will benefit from participation in the James Scholar Program and how it aligns with your career goals. Maximum 200 words.  
   **15 Points**

2. Describe how you will balance your class time, clinical rotations and research to successfully complete the James Scholar Program. Maximum 200 words.  
   **10 Points**

3. Please describe any personal characteristics that suggest that you would thrive as a James Scholar. Maximum 100 words.  
   **5 Points**

4. Include a letter of support from your research mentor and a letter of recommendation from someone other than your research mentor. NOTE: The research mentor should comment not only on your qualifications as a James Scholar candidate, but also on the feasibility of your proposed project.  
   **5 Points**

5. Attach a copy of your curriculum vitae (CV), which should include educational history, relevant job experience, research experience, and any other pertinent information. It should also include a current address, phone number & e-mail address.  
   **5 Points**

6. Preliminary Description of the Project  
   **50 Points**
   Provide a brief (2-3 page) summary of your proposed James Scholar research project, beginning with a ‘working title’ and the name of your advisor(s). All of the following elements should be included in your preliminary description:
   a. brief literature review  
   b. hypothesis and/or specific aims  
   c. brief description of methodology  
   d. a statement of the potential significance of the research (i.e. how will this study advance the field).

In addition to the points indicated above, each reviewer will be given discretionary points, to be awarded based on their wholistic assessment of your application.  
   **10 Points**
James Scholar Schedule  *Tentative Timeline  
Academic Year 21-22  
Class of 2025 Peoria Campus

<table>
<thead>
<tr>
<th>DATE</th>
<th>EVENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 4, 2021</td>
<td>Application distributed to all Class of 2025 students</td>
</tr>
<tr>
<td>January 4, 2022</td>
<td>Deadline to submit application</td>
</tr>
<tr>
<td>January 14, 2022</td>
<td>James Scholar Committee deadline to submit feedback regarding applications</td>
</tr>
<tr>
<td>Late January 2022</td>
<td>Notify students of selection decisions &amp; meeting planned for proposal questions</td>
</tr>
<tr>
<td>thru March 2022</td>
<td>Refine interests &amp; mentor selection (with help of Committee). Write proposal.</td>
</tr>
<tr>
<td>March 28, 2022</td>
<td>ORIGINAL RESEARCH PROPOSAL DUE</td>
</tr>
<tr>
<td>May 6, 2022</td>
<td>Revision #1 proposal due based on Committee feedback</td>
</tr>
<tr>
<td>June 4, 2022</td>
<td>FINAL RESEARCH PROPOSAL DUE</td>
</tr>
<tr>
<td>June 24, 2022</td>
<td>M1 James Scholar acceptance letters issued</td>
</tr>
</tbody>
</table>