

# University at Buffalo

## School of Pharmacy & Pharmaceutical Sciences



## Scholars Program Student Handbook

### 2021-2022

#### **Scholars Program Committee:**

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See also: <http://pharmacy.buffalo.edu/academics/pharmd/micro-credential-programs/scholars-program.html>

## General Overview

The Scholars Program of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences (UB SPPS) is designed to identify doctor of pharmacy students with demonstrated excellence in academic achievement having an interest in postgraduate residency training. This program provides mentoring to third and fourth professional year students in the areas of clinical practice, scholarship, and teaching so as to help mold the future leaders of our profession. In addition to the traditional PharmD program requirements, the Scholars Program student will participate in the following activities during their third and/or fourth professional year: (1) mentoring program, (2) modified coursework encompassing clinical practice, research, teaching, and leadership, (3) modified experiential education activities, (4) journal club, (5) teaching activities, (6) scholarship, and (7) professional presentations.

## Scholars Program Micro-Credential

The Scholars Program is an approved micro-credential through the University at Buffalo. A micro-credential is a program, smaller than a degree or advanced certificate, which allows the learner to gain relevant skills. Upon completion, students will receive a digital badge, which serves as a symbol of your accomplishments. The digital badge contains metadata and links to information about the requirements of the Scholars Program. Digital badges are owned by the learner who earned it and can be used however they wish, such as displayed on social media sites, in e-mail signatures, or on digital resumes. More information about micro-credentials can be found here: <https://www.buffalo.edu/micro-credentials.html>.

## Eligibility Requirements

To be eligible for the UB SPPS Scholars Program, students must have a minimum of a 3.5 GPA in required courses and documented history of professional organization involvement. A student having a GPA between 3.2 and 3.49 may petition to enroll in the program, pending input from his/her faculty advisor. A letter of support from the faculty advisor must be sent to the Scholars Program Committee Chair.

## Application and Interview Process

Students must formally apply to the Scholars Program to be considered. To apply, students must complete the UB SPPS Scholars Program application and upload their CV as directed between November 15<sup>th</sup> and November 30<sup>th</sup> of their second professional (P2) year (unless otherwise specified). Applications are not accepted at any other time. Applications are reviewed by the UB SPPS Scholars Program committee during the month of December. Selected students will be offered an interview via email no later than January 31<sup>st</sup>. Interviews will be held before or early in the spring semester. Interviews will consist of a 10-20 minute interview with members of the UB SPPS Scholars Program committee.

## Enrollment Process

Following interviews, a maximum of 10% of the class size will be invited into the Scholars Program by email no later than March 1<sup>st</sup>. Only students deemed to be outstanding candidates will be accepted into this program. Students must complete and return appendices A and B no later than March 15<sup>th</sup>.

## Mentoring

Students enrolled in the UB SPPS Scholars Program will be given the opportunity to engage in one-on-one mentoring for professional growth, clinical practice, scholarship, and/or teaching. Mentors may be UB SPPS faculty or adjunct faculty members. Each year, an available list of mentors and their current projects/interests will be provided and students will submit their top three mentor preferences ([Appendix B](#)) (submit by March 15<sup>th</sup>). Students may identify a mentor from this list, or may identify a mentor on their own. Mentors not pre-identified will need to be approved by the UB SPPS Scholars Program Committee.

## Mentor Responsibilities

UB SPPS Scholars Program mentors are expected to mentor students during their third and fourth professional year in the following activities: (1) clinical practice through experiential education activities; (2) scholarship through research and/or scientific writing (e.g., reviews of therapeutics, case reports); and, (3) professional presentation of research / scientific writing ([Appendix D](#)).

## Curriculum

Students enrolled in the UB SPPS Scholars Program will be given the opportunity to complete modified coursework encompassing clinical practice, research, teaching, and leadership. Courses identified with “(E)” indicate courses that will count towards the required elective credit hours over the first three professional years required by the UB SPPS. Students are expected to enroll in the required courses as outlined below on the course listing. Students who do not enroll in the listed courses, or who resign from any of the listed courses, will be automatically dismissed from the Scholars Program and will not receive their UB SPPS Scholars Program certificate of completion.

Standard PharmD Curriculum with Required Scholars Program Electives					
Fall			Spring		
PHM 701	Neurology/Psychiatry/Substance Abuse Pharmacotherapeutics	3	PHM 703	Oncology/Hematology and Critical Care Pharmacotherapeutics	2
PHM 702	Pulmonary/Toxicology/Rheumatology Pharmacotherapeutics	3	PHM 704	Geriatrics and Pediatrics Pharmacotherapeutics	2
PHC 517	Pharmacogenomics	2	PHM 705	Pharmacotherapeutic Integrated Cases	2
PHM 706	Informatics and Health Information Systems	2	PHM 716	Pharmaceutical Care 5	1
PHM 715	Pharmaceutical Care 4	1	PHM 730	Topics in Pharmacy Law	1
PHM 729	Pharmacy Ethics	2	PHM 736	Pharmacoeconomics and Pharmacoepidemiology	2
PHM 781	IPPE-3a	3	PHM 782	IPPE-3b	3
PHM 599	Teaching and Learning Theory (E)	1	PHM 555	All School	0
PHM 798	Supervised Teaching (E) ¥ in PHM 515 (Pharm Care I) or PHM 615 (Pharm Care II)	2	PHM 550	Leadership in Pharmacy (E) ‡	1
PHM 555	All School	0	PHM 798	Supervised Teaching (E) ¥ in PHM 516 (Self-Care) or PHM 616 (Pharm Care III)	2
			PHM 794	Advanced Ambulatory Pharmacotherapeutics (E)	2
			PHM 795	Advanced Pharmacotherapeutics (E)	2
		19			20

E = Counts towards the required 8 hours of elective credit hours required by the UB SPPS for graduation.

¥ = TA activities occur during both the fall and spring semesters.

## Experiential Education

Students enrolled in the UB SPPS Scholars Program will be given the opportunity to partake in tailored introductory (IPPE) and advanced pharmacy practice (APPE) experiences, focusing on clinical practice, scholarship, and/or teaching, so as to better prepare them for post-graduate training.

Students in the standard PharmD programs will complete one IPPE-3 rotation, one clinical APPE rotation (6 weeks), and one elective APPE research / clinical rotation (4 weeks) with their UB SPPS Scholars Program mentor. The clinical and elective research rotation will be pre-arranged with the experiential education office during the spring of the P3 year. The specific modules that the rotations will be scheduled are at the discretion of the mentor and student, but it is highly recommended that the clinical rotation be scheduled either during the summer or early fall of the P4 year. The modules may be scheduled back-to-back, in which case it is recommended that the elective rotation be scheduled first followed by the clinical rotation. In this case, the focus of the first rotation will be the scholarly project (with a grade provided at the end of the module), while the focus of the second rotation will be clinical (and would follow the typical APPE module requirements).

Scheduling of the IPPE and APPE rotations will be overseen by the UB SPPS Office of Experiential Education. Questions regarding experiential education within the UB SPPS Scholars Program should be directed to Dr. Richard O'Brochta, Clinical Associate Professor / UB SPPS Director of Experiential Education, at [robrecta@buffalo.edu](mailto:robrecta@buffalo.edu).

## Journal Club

Students enrolled in the UB SPPS Scholars Program will be required to participate in a monthly journal club. Students will be expected to be the primary presenter for one journal club during their P3 year and actively participate in the other Scholars students' presentations. Journal club will be scheduled prior to commencement of the fall semester. Attendance is expected at each scheduled session. Students who anticipate being absent must notify Dr. Maya Chilbert, Clinical Assistant Professor. Questions regarding the UB SPPS Scholars Program journal club should be directed to Dr. Maya Chilbert, Clinical Assistant Professor, at [mayahols@buffalo.edu](mailto:mayahols@buffalo.edu).

## Teaching Activities / Requirements

Students enrolled in the UB SPPS Scholars Program will be required to serve as a teaching assistant during their third professional year. Teaching activities will occur within the Pharmaceutical Care course sequence during the P3 fall semester (PHM 515/615) and P3 spring semester (PHM 615/616). Students must register for PHM599: Teaching and Learning Theory during the fall semester (or per course offering, see curriculum table). Questions regarding the UB SPPS Scholars Program teaching assistant activities should be directed to Dr. Ashley Woodruff, Clinical Associate Professor, at [aew7@buffalo.edu](mailto:aew7@buffalo.edu).

## Scholarly Activities / Requirements

Students enrolled in the UB SPPS Scholars Program will be given an opportunity to conduct a scholarly project. The goal of the scholarly project is to provide the student with experience in clinical / pharmaceutical research / writing through the completion of a research or other scholarly project in close collaboration with a faculty mentor. This guided experience is intended to familiarize the student with all aspects of the research and/or scholarly writing process.

Students are expected to attend the didactic research course, “Preparing Pharmacy Residents for Scholarship.” Students will attend this class during the summer prior to their P3 year.

Students may fulfill this requirement by preparing an original research project, a case report, or a review of therapeutics, in collaboration with their UB SPPS Scholars Program mentor ([Appendix D](#)). If the student is involved in a research project, the student is expected to participate in the initial development of the idea (the mentor may provide options), prepare a research proposal, collect and analyze data, prepare and submit the manuscript for publication, and present the results. Original research may be prospective or retrospective in design, but should be able to be completed prior to graduation. If the student is involved in a writing project, the student is expected to participate in the initial development of the idea, complete the literature review, critically evaluate the literature, prepare and submit the manuscript for publication, and present the results. It is expected that students submit their manuscript for publication in a peer-reviewed journal prior to graduation.

Students should work with their mentor to develop a project timeline, and should view the scholarly project as a longitudinal effort, working with their research mentor before, during and after their dedicated P4 research rotation(s). One of the fundamentals of being an outstanding researcher is time management. Therefore, the student and faculty mentor should establish a timeline and make sure you are meeting milestones. Students should not have the expectation that all of the work is to be done during their P4 research rotation(s). Rather, this should be viewed as one time block within a longitudinal timeline.

The UB SPPS Scholars Program scholarly project fulfills the pharmacy project requirement. Students who do not fulfill the scholarly project requirement (see above) will not receive their UB SPPS Scholars Program certificate of completion. Questions regarding the UB SPPS Scholars Program scholarly project activities should be directed to Dr. Maya Chilbert, Clinical Assistant Professor, at [mayahols@buffalo.edu](mailto:mayahols@buffalo.edu).

## Professional Presentation Activities / Requirements

Poster Presentation (local): Students enrolled in the UB SPPS Scholars Program will be required to present their scholarly project in the form of a poster presentation during the spring semester (usually in April) of their fourth professional year at the annual UB Residency Research Presentation day. Students should try to plan their APPE schedule accordingly to assure they are available for this event, but will be excused if they are completing an out-of-region APPE. The poster should be developed in collaboration with their UB SPPS Scholars Program mentor. Students who do not fulfill the professional presentation requirement, unless excused for an out-of-region APPE, will not receive their digital badge, indicating completion of the UB SPPS Scholars Program Micro-Credential.

Poster Presentation (state/national): Students enrolled in the UB SPPS Scholars Program who are completing a hypothesis driven research project to fulfill their scholarly activity requirement are encouraged to submit their scholarly project as a poster at a state or national pharmacy meeting. The meeting to which the poster is submitted will be at the discretion of their UB SPPS Scholars Program mentor.

Questions regarding the UB SPPS Scholars Program professional presentation activities should be directed to Dr. Maya Chilbert, Clinical Assistant Professor, at [mayahols@buffalo.edu](mailto:mayahols@buffalo.edu).

## Program Completion

Students enrolled in the UB SPPS Scholars Program are required to complete all components of the Scholars Program ([Appendix D](#)) prior to the end of their P4 year. These requirements will be tracked by the Scholars Program Committee. Failure to complete any of the SP requirements may result in dismissal from the program. Upon completion of all requirements and submission of final project (eg. poster), a digital badge will be issued by the UB Office of Micro-Credentials.

## Combined/Dual Degree Policy:

Students accepted into the Scholars program who are entering a dual-degree program after their second professional year of pharmacy school will forfeit their acceptance into the Scholar's program. Students may reapply to the Scholars Program during the application cycle prior to entering their third professional year of pharmacy school. Students re-applying will be evaluated based on the same criteria as other (initial) applicants.

## Dismissal Policy:

Students were invited to enroll in the Scholars Program, in part, due to their evidence of high scholastic achievement. However, a decline in academic performance can adversely impact a student's overall GPA as well as their ability to obtain post-graduate training. Additionally, Scholars Program students are expected to reflect the highest levels of professionalism as representatives of UB SPPS. Therefore, students may be dismissed from the Scholars Program due to either poor academic performance or lack of professionalism.

The Scholars Program Committee conducts routine check-ins with mentors to ensure that Scholars Program students are progressing through program requirements and meeting expectations regarding academic performance and professionalism. Any students flagged by mentors (or other faculty/preceptors) as requiring improvement will be asked to meet with the Scholars Program Committee. Depending on the issue(s), the student may be asked to write a performance improvement plan (PIP) or be subject to automatic dismissal from the Scholars Program. If asked to create a PIP, it should identify deficiencies and a plan to improve them, including SMART goals and a reasonable timeline for follow-up. The student, Scholars Program committee, and Scholars Program mentor must all agree on the PIP. Progression on the PIP will be determined based on input from the mentor and any other involved faculty/preceptors. Students unable to progress as outlined in their PIP will be dismissed from the program.

Students are expected to maintain a minimum semester GPA of 3.0. Students not meeting this GPA requirement will need to schedule a meeting with the Chair of the UB SPPS Scholars Program Committee to discuss their academic standing and to outline a plan to improve their GPA. Based on this meeting, the outcome will be an outlined plan for continuation in the UB SPPS Scholars Program or dismissal from the UB SPPS Scholars Program. Students who receive two C's, a D, or an F during any one semester or fail any IPPE or APPE rotation will automatically be dismissed from the Scholar's Program. Students who are placed on academic probation by the UB SPPS Student Affairs Committee will be automatically dismissed from the Scholars Program and may not be readmitted. Grades will be reviewed each semester by the Scholar's Program Committee. The students may choose to petition the SP Committee for readmission into the program (unless placed on academic probation), pending support from their SP mentor.

## Student Outcomes Monitoring

The Scholars Program of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences (UB SPPS) is designed to provide mentorship to third and fourth professional year students in the areas of clinical practice, scholarship, and teaching so as to help mold the future leaders of our profession. Students enrolled in the scholars program are asked to provide the following information upon graduation and every two years thereafter.

- Contact information: Email address
- Post-graduate training information: Residency, fellowship, other (specify)
- Career information: Position, title, institution, location

## Important Deadlines

Student application to SP	November 15-30 (P2 year)
E-mail invitation to applying students	January 31 (P2 year)
Interview	February (P2 year)
E-mail invitation to accepted students	March 1 (P2 year)
Appendices A and B due from students	March 15 (P2 year)
Scholarly project platform presentation	May 1 (P4 year)
Submission of verification form (Appendix D)	May 1 (P4 year)
Submission of abstract (if applicable)	Per Professional Meeting Deadlines

## Appendix A: Scholars Program Student Commitment Form

I hereby acknowledge that I have read, understand and agree to adhere to the UB SPPS Scholars Program policies and procedures as detailed in the UB SPPS Scholars Program Student Handbook.

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Student Name (print)

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Student Signature

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Date

Please complete this form and submit to Mrs. Kelly Sustakoski, Academic Coordinator, in 201 Pharmacy Building by March 15<sup>th</sup> of your P2 year.

## Appendix B: Scholars Program Student Information / Mentor Request Form

Student Name: \_\_\_\_\_

Primary Post-graduate Training Interest (check one):

- PGY-1
- PGY-1 and PGY-2
- Fellowship
- Post-doctoral Training
- Other: \_\_\_\_\_

Clinical / Research Interest(s) (check up to five):

- Academia / Academic Administration
- Ambulatory care
- Cardiology
- Critical Care
- Drug information / Informatics
- Emergency Medicine
- Geriatrics
- Health-System Administration / Medication Use Safety
- Infectious Disease
- Internal Medicine / Family Medicine
- Nephrology
- Nuclear
- Nutrition Support
- Oncology
- Pain Management / Palliative Care
- Pediatrics
- Pharmaceutical Health Services
- Psychiatry
- Solid Organ Transplantation
- Toxicology
- Underserved Population Patient Care
- Other: \_\_\_\_\_

Mentor identification (check one):

- I have identified potential mentor(s) † (please list name(s) here in order of preference):
  - (1) \_\_\_\_\_
  - (2) \_\_\_\_\_
  - (3) \_\_\_\_\_
- I have not yet identified a mentor and would like assistance based on my interests

Please complete this form and submit to Mrs. Kelly Sustakoski, Academic Coordinator, in 201 Pharmacy Building by March 15<sup>th</sup> of your P2 year.



## Appendix C: Scholars Program Mentor List

### Academia / Academic Administration

William A. Prescott, Jr., PharmD

Contact: [prescott@buffalo.edu](mailto:prescott@buffalo.edu)

### Ambulatory care

Nicole Albanese, PharmD, CDE, BCACP

Contact: [npaolini@buffalo.edu](mailto:npaolini@buffalo.edu)

Erin Slazak, PharmD, BCPS, BCACP

Contact: [emsabia@buffalo.edu](mailto:emsabia@buffalo.edu)

Christopher Daly, PharmD

Contact: [cjdaly@buffalo.edu](mailto:cjdaly@buffalo.edu)

### Bariatric Surgery

Scott V. Monte, PharmD

Contact: [svmonte@buffalo.edu](mailto:svmonte@buffalo.edu)

### Cardiology

Maya Chilbert, PharmD, BCCP

Contact: [mayahols@buffalo.edu](mailto:mayahols@buffalo.edu)

### Critical Care

Kim Zammit, PharmD, BCPS, BCCCP, FASHP

Contact: [KZammit@KaleidaHealth.Org](mailto:KZammit@KaleidaHealth.Org)

Brian Kersten, PharmD

Contact: [bkersten@kaleidahealth.org](mailto:bkersten@kaleidahealth.org)

### Drug information / Informatics

Fred Doloresco, PharmD

Contact: [frediii@buffalo.edu](mailto:frediii@buffalo.edu)

### Emergency Medicine

Kevin Chilbert, PharmD, BCPS

Contact: [kevinchi@buffalo.edu](mailto:kevinchi@buffalo.edu)

Megan Nadler, PharmD

Contact: [MNadler@kaleidahealth.org](mailto:MNadler@kaleidahealth.org)

### Geriatrics

Collin Clark, PharmD, BCPS, BCGP

Contact: [collincl@buffalo.edu](mailto:collincl@buffalo.edu)

Robert Wahler, PharmD, BCGP, CPE, FASCP

Contact: [rgwahler@buffalo.edu](mailto:rgwahler@buffalo.edu)

### Health-System Administration / Medication Use Safety

Andrew DiLuca, RPh

Contact: [ADiLuca@KaleidaHealth.Org](mailto:ADiLuca@KaleidaHealth.Org)

Timothy Vink, PharmD, MAOL, BCPS

Contact: [tvink@chsbuffalo.org](mailto:tvink@chsbuffalo.org)

### Infectious Diseases

Raymond Cha, PharmD

Contact: [rcha@buffalo.edu](mailto:rcha@buffalo.edu)

### Internal Medicine / Family Medicine

Stephanie Seyse, PharmD

Contact: [SSeyse@KaleidaHealth.Org](mailto:SSeyse@KaleidaHealth.Org)

Ashley Woodruff, PharmD, BCPS

Contact: [aew7@buffalo.edu](mailto:aew7@buffalo.edu)

### Nephrology

Calvin Meaney, PharmD, BCPS

Contact: [cjmeaney@buffalo.edu](mailto:cjmeaney@buffalo.edu)

### Neurology

Michelle Rainka, PharmD, CCRP

Contact: [MRainka@dentinstitute.com](mailto:MRainka@dentinstitute.com)

Megan Nadler, PharmD

Contact: [MNadler@kaleidahealth.org](mailto:MNadler@kaleidahealth.org)

### Nuclear

Edward Bednarczyk, PharmD, FCCP

Contact: [eb@buffalo.edu](mailto:eb@buffalo.edu)

### Nutrition Support

Kim Zammit, PharmD, BCPS, BCCCP, FASHP

Contact: [KZammit@KaleidaHealth.Org](mailto:KZammit@KaleidaHealth.Org)

### Pain Management / Palliative Care

Robert Wahler, PharmD

Contact: [rgwahler@buffalo.edu](mailto:rgwahler@buffalo.edu)

### Pediatrics

Nicholas Fusco, PharmD, BCPS

Contact: [nmfusco@buffalo.edu](mailto:nmfusco@buffalo.edu)

### Pharmaceutical Health Services

David Jacobs, PharmD, PhD

Contact: [dmjacobs@buffalo.edu](mailto:dmjacobs@buffalo.edu)

*Research mentor only, clinical mentor identified with Dr. Jacobs based on interest and research project*

### Psychiatry

Kimberly Mulcahy

Contact: [Kimberly.Mulcahy@omh.ny.gov](mailto:Kimberly.Mulcahy@omh.ny.gov)

Michelle Rainka, PharmD, CCRP

Contact: [mrainka@dentinstitute.com](mailto:mrainka@dentinstitute.com)

### Transitions of Care

Collin Clark, PharmD, BCPS, BCGP

Contact: [collincl@buffalo.edu](mailto:collincl@buffalo.edu)

### Underserved Population Patient Care

Gina Prescott, PharmD, BCPS

Contact: [gmzurick@buffalo.edu](mailto:gmzurick@buffalo.edu)

### Women's Health

Nicole Cieri-Hutcherson, PharmD, BCPS

Contact: [necieri@buffalo.edu](mailto:necieri@buffalo.edu)

## **Appendix D: Scholars Program Component Checklist**

The following requirements must be completed prior to the end of the P4 year.

### **Curriculum / Experiential Education**

- PHM 599, Teaching and Learning Theory
- PHM 550, Leadership in Pharmacy
- PHM 794, Advanced Ambulatory Pharmacotherapeutics
- PHM 795, Advanced Pharmacotherapeutics
- PHM 781/782, IPPE-3 (with mentor)
- PHM 820/821/823/824, APPE (with mentor)
- PHM 831, APPE (with mentor)

### **Journal Club**

- Monthly attendance and participation (P3)
- Presentation (P3)

### **Teaching**

- Fall semester (P3): PHM515 / PHM 615 (circle one)
- Spring semester (P3): PHM516 / PHM 616 (circle one)

### **Scholarly Project / Professional Presentation**

- Scholarly project
- Poster- Local: UB Residency Research Day (if excused, please keep documentation/email verification)
- State: \_\_\_\_\_ or National: \_\_\_\_\_

### **Other**

- “Preparing Residents for Scholarship” didactic research class (Summer/Fall P3 year)