



Guthrie Scholars Premedical Internship

Program Description – Part II Academic Requirements and Applying to the Program

Experiential and Classroom Opportunities:

During the semester at Guthrie – Robert Packer Hospital, a Scholar’s time is divided between

- A research project
- Skills lab training
- Attending Medical/Surgical Grand Rounds
- Resident and Student Lectures
- Participating in Teaching Rounds
- Shadowing Doctors, Nurses, Social Workers, Nutritionists, Allied Health Care Providers, and Administrators across the organization
- Completion of a medical terminology class or independent study
- Completion of an observership in Trauma
- Observation while riding on Guthrie’s helicopter air-ambulance

Time commitment:

The Guthrie Scholars Internship is a full semester (15 week) in-residence (students live on the Guthrie Campus) program that takes place on the Guthrie - Robert Packer Hospital campus (about 40 minutes west of the Binghamton University Campus).

- Full time in-residence during a fall or spring semester
- Internship activities are planned for at least four days a week (Monday – Thursday) with plenty of opportunity for increased clinical observation time.
- Students are expected to commit an average of 48 hours per week for 15 weeks during either a fall or spring academic semester, which includes time during observations, skills lab training, research, attending rounds, shadowing, clinicals, classroom instruction, studying, etc. An activity log documenting all activities and time committed is required.

Level:

- Juniors at the time of the actual internship are the ideal candidates due to accumulated background and as a precursor to applying to medical-school.
- Sophomores and Seniors (at the time of the internship) are also encouraged to apply.

Credit:

Degree requirements met through the Guthrie Internship are dependent on a student's major. At this point in time we have had students majoring in Biology, Chemistry, Biochemistry, and Integrative Neuroscience participate, so only those degree programs have been vetted for credit. As other majors are accepted to the Guthrie internship, we will assess those majors for credit. If your major is not listed, please see Professor Ziegler. Biology, Chemistry, Biochemistry, and Integrative Neuroscience majors will be provided the following upon successful completion of the Guthrie Scholars Premedical Internship.

- **Biology BS or BA:** (as per Prof. Shepard, Prof. Miles, Prof. Ziegler; June 2015):
 - 4 credit hours BIOL494 *Biology Internship* (pass/fail grade)*
 - Student must complete a form available in the Biology Dept office. On the form, be sure to make it clear that BIOL494 is for the Binghamton University Scholars – Guthrie Scholars Internship Program (mention Professor Ziegler on the form).
 - Have the form signed by Professor Julian Shepard.
 - Biology office staff will register the student for the course.
 - Professor Ziegler will provide a final report to Professor Shepard for grading purposes at the conclusion of the internship.
 - 8 credit hours SCHL396 *Guthrie Scholars Premed Intern* (letter grade)
 - Contact Mary LaCourt, Scholars Administrative Assistant, to register
 - The grade (letter grade) will be based on a formal evaluation provided by physicians and administrators at Guthrie in consultation with Professor Ziegler
 - Satisfaction of the requirement for Scholars III
 - Must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL327
 - Satisfaction of the requirement for Scholars IV
 - Must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL427
- **Chemistry – all BS and BA programs** (as per Prof. Lees and Prof. Ziegler - May 2016)
 - 4 credit hours of CHEM 397 (Independent Study)
 - Student must complete an independent study registration form for CHEM 397, available in the Chemistry Department.
 - CHEM 397 must be taken as P/F
 - Chemistry Undergraduate Program Director must be formally listed as advisor.
 - Student must create his/her own title for the independent study. One suggestion for a title is, “Rural Medicine Immersion” but the student may opt for something else.
 - Form must be signed by Chemistry Undergraduate Program Director
 - Fulfillment of a 4 credit hour Science Elective requirement for the Chemistry major. The student will not actually register for these credits. Upon completion of the Guthrie Internship, the student must contact the Chemistry Undergraduate Program Director and an adjustment will be made to Degree Works to reflect the four-credit hours earned from the Guthrie internship.
 - 8 credit hours SCHL396 *Guthrie Scholars Premedical Internship* (letter grade)
 - Contact Mary LaCourt, Scholars Administrative Assistant, to register

- The grade (letter grade) will be based on a formal evaluation provided by physicians and administrators at Guthrie in consultation with Professor Ziegler
 - Satisfaction of the requirement for Scholars III
 - Must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL327
 - Satisfaction of the requirement for Scholars IV
 - Must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL427
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- **Integrative Neuroscience** (as per Prof. Luka, Prof. DiLorenzo, Prof. Ziegler May, 2015):
 - 4 credit hours course work in fulfillment of *Related Subjects* elective**
 - Fulfillment of one of the three required labs**
 - 8 credit hours in fulfillment toward the 16 upper level elective credits required for the major**
 - **Student will not actually register for the *Related Subjects* elective or the *lab*. Upon completion of the Guthrie Internship, the student must visit the Academic Advising office for Integrative Neuroscience and an adjustment will be made to the Degree Works record to reflect the credits earned from the Guthrie Program.
 - 12 credit hours SCHL396 *Guthrie Scholars Premed Intern* (letter grade)
 - Contact Mary LaCourt, Scholars Administrative Assistant, to register
 - The grade (letter grade) will be based on a formal evaluation provided by physicians and administrators at Guthrie in consultation with Professor Ziegler
 - Satisfaction of the requirement for Scholars III
 - Must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL327
 - Satisfaction of the requirement for Scholars IV
 - Must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL427
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- **Biochemistry:** (as per Prof. Bane and Prof. Ziegler April, 2017):
 - 4 credit hours of BCHM497 - Independent Study
 - Student must complete an independent study registration form for BCHM497, available in the Biological Sciences Department.
 - Student must create his/her own title for the independent study. One suggestion for a title is, “Rural Medicine Immersion” but the student may opt for something else.
 - The Director of the Biochemistry Program must be formally listed as the Ind. Study Advisor.
 - Registration for BCHM497 must be completed prior to beginning the Guthrie Internship.
 - The grade for BCHM497 will be a letter grade based on the final evaluation provided by Guthrie and will be the same as the grade for SCHL396

- The student must complete the written report requirement for BCHM497.
 1. The requirements for the report are not at the level of a formal paper, and should be discussed with the Biochemistry Program Director.
 2. This report is a requirement in order to receive credit for the course, but will not be used to determine a grade for BCHM497 or SCHL396.
 3. Credit will not be granted for BCHM497 until the written report is deemed “satisfactory” by the Director of the Biochemistry Program. If the report is deemed unsatisfactory at the end of the semester, then a grade of Incomplete for BCHM497 will be provided until such time that the write-up is deemed “satisfactory.” If after one semester, the report has still not been deemed as satisfactory, then the student will receive a grade of F for the course.
- Fulfillment of a 4 credit hour Math/Science Elective requirement for the Biochemistry major. The student will not register for this elective. Upon completion of the Guthrie Internship, the student must contact the Biochemistry Program Director to request that an adjustment be made to Degree Works to reflect the four-credit hours earned from the Guthrie internship.
- 8 credit hours SCHL396 *Guthrie Scholars Premedical Internship* (letter grade).
 - a. Contact Mary LaCourt, Scholars Administrative Assistant to register for this course.
 - b. The grade (letter grade) will be based on a formal evaluation provided by physicians and administrators at Guthrie in consultation with Professor Ziegler
- Satisfaction of the requirement for Scholars III
 - Student must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL327
- Satisfaction of the requirement for Scholars IV
 - Student must submit preapproval and post approval on B-Engaged
 - no signatures are necessary – just submit the forms online
 - Must register for SCHL427

Taking Binghamton University Courses While at Guthrie:

Several former Guthrie Scholars have found it possible to take a Binghamton University course concurrently while participating in the Guthrie Scholar Internship. The timing would have to be such that the Binghamton course does not interfere with assignments at Guthrie, so late afternoon, evening, or courses that only meet once per week work best. Permission from Kyle Williams at Guthrie and Professor Ziegler is required in advance.

The Excelsior Scholarship:

Those who qualify for the New York State Excelsior Scholarship need to be particularly careful regarding mandatory credit hour completion per semester/year. Please contact Binghamton’s Office of Financial Aid and Scholarships PRIOR to applying/beginning the Guthrie Internship to be sure you will be in compliance regarding minimum credit hours.

Cost:

There are no costs associated with the Guthrie Scholars Premedical Internship other than regular tuition and fees (instate, out of state, international rates apply) typically paid for a full time student at Binghamton University.

- Free housing at the Guthrie - Robert Packer Hospital campus
- Free meals at Robert Packer Hospital

- Free access to Guthrie's 24/7 fitness center, Club Guthrie
- Free books and course materials

Please note that this educational opportunity is considered an unpaid internship and no stipend or salary will be provided.

Assignments:

Assignments are based on the requirements listed in the

Guthrie Scholars Premedical Internship Program Description –
Part I: Opportunities at the Guthrie Clinic and Robert Packer Hospital
Part II: Academic Requirements and Applying to the Program
Part III: SCHL 396 Syllabus.

Number of openings:

- One to four Binghamton University Scholars will be selected for each fall semester
 - Applications are accepted with a February deadline for the following fall semester
- An additional one to four Scholars will be accepted for each Spring semester
 - Applications are accepted with a September deadline for the following spring semester

Eligibility Requirements: In order to be eligible, Scholars must:

- Have a sincere interest in attending Medical School upon graduation from Binghamton University
- Provide demonstrated excellence within the Binghamton University Scholars Program
 - minimum 3.25 overall gpa
 - completed SCHL127, SCHL280281/380 (at least one section), and preferably SCHL227 by the time of the internship
 - Show evidence of engagement in the Binghamton University Scholars Program as made evident by a B-Engaged Involvement Transcript

How to Apply:

Up to four Scholars will be accepted into the internship program per semester.

- For a Fall internship:
 - Applications for Scholars internships for the Fall semester will be accepted at a date TBA (typically in February)
- For a Spring internship:
 - Applications for Spring will be accepted at a date TBA (typically in September)

All application materials should be handed in (no email or fax submissions) to the Binghamton University Scholars Program office by the stated deadline.

- Complete and provide a paper copy of the required *Guthrie Scholars Premedical Internship Demographic Data Sheet*
- Provide a paper copy of an up-to-date resume
- Provide a paper copy of an unofficial academic transcript
- Provide a paper-copy of a Involvement Transcript from B-Engaged
- Provide paper copies of three letters of recommendation that speak to the applicant's character, abilities, qualifications, and interest in medicine. Letters of recommendation

must arrive by the application deadline in a sealed envelope with the writer's signature across the seal.

- Write and provide a paper copy of a one to two page single-spaced personal statement which includes:
 - Some background on how you came to decide that you might enjoy a career in medicine.
 - why you feel you are a good candidate for the internship
 - what you hope to gain from the internship
 - What you feel you have to offer other interns, physicians, staff, and teachers during the internship

Selection Process

- After applications are reviewed, a select group of applicants will be invited to the Guthrie Campus for an interview.
- Final decisions are then made by Guthrie physicians and staff.

Questions:

Please direct any questions to Katherine Bouman, Assistant Director of the Binghamton University Scholars Program, at ksbouman@binghamton.edu.