

# Immunology and Infectious Diseases (IID) Graduate Program

**Degree Requirements Booklet** 

**Fall 2013** 

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#### **Immunology and Infectious Diseases (IID)**

#### **Course Requirements**

Students will carryout their course work at the University Park campus. Flexibility in curriculum design is a goal, so certain of these requirements may be substituted by other courses upon consultation with the IID Chair, in order to optimize the educational experience of each student. With the consent of the mentor, students also may select additional courses from the basic sciences. These may be remedial and/or advanced courses.

# **Responsible Conduct of Research Training Requirement:**

Starting in Fall 2009, all new students in the Immunology and Infectious Diseases graduate program must complete an online Responsible Conduct of Research (RCR) training course during their first year. The online course is offered through the CITI (Collaborative Institutional Training Initiative) Program and supplements the in-class, discussion-based RCR training provided in IBIOS 591, Ethics in the Life Sciences, a required 1-credit course typically taken during the second year. Together, these two courses satisfy RCR training requirements mandated by Penn State's SARI (Scholarship and Research Integrity) Program, an RCR initiative organized through the Office for Research Protections (administrative unit within the Office of the Vice President for Research).

First year students should register for the online CITI RCR course as soon as possible in the Fall semester. To register, go to the Penn State SARI website, Online Training Program page (<a href="http://www.research.psu.edu/training/sari/program">http://www.research.psu.edu/training/sari/program</a>) where you will find instructions and a link for the CITI Program website (<a href="http://www.citiprogram.org/">http://www.citiprogram.org/</a>). Select Pennsylvania State University as the participating institution and register for the CITI **Biomedical Sciences** course. Students must work on their own to complete the course modules and pass the on-line quizzes. All modules must be completed by the end of the first Fall semester; and a copy of the student's Completion Report must be submitted to the Program administrative office before January 15<sup>th</sup>.

#### First Year Advisor

The IID Chair will serve as a temporary advisor. This advisor will serve as the primary program contact for the student if problems or questions arise.

#### **Rotations**

Rotation requirements will be flexible and tailored to each student's individual interests. It will be possible to perform rotations within both clinical and basic environments as well as at the College of Medicine at Hershey. If you are interested in working with the faculty at the College of Medicine talk with the program director.

#### **Safety Examination Requirement**

All students are required to pass the radiation physics and chemical waste disposal safety examinations offered by the Environmental Health and Safety office at Penn State. Certain laboratories will require that the Biohazard and Animal Handling courses be taken as well.

### **Candidacy Exam**

A candidacy exam consisting of a written and oral portion will be administered before the end of the third semester, providing academic progress is satisfactory (Minimum GPA = 3.0). The examination, which will be announced a minimum of one month ahead of time, will consist of a written portion based on a selection of publications and an oral section based on these papers and on primary knowledge in immunology, infectious diseases and pathogenesis, or other topics where appropriate. The candidacy committee will be selected by the IID chair. The candidacy committee will select the publications on which the examination is based, and will administer the oral section of the exam.

#### **Doctoral Thesis Committee**

The graduate student, upon consultation with his/her faculty advisor, selects the doctoral thesis committee within one semester of the successful completion of the candidacy exam. Of this five-person committee, four individuals need to be members of the IID, and one should be an individual who is not a member of IID, and who does not actively collaborate with the faculty advisor. All committee members must be members of the graduate faculty. Following appointment, the thesis committee will meet with the student at least once a year until the completion of their studies. The doctoral thesis committee is responsible for administering and evaluating the comprehensive and final oral examination, and for approving the overall program of courses, the dissertation topic, research design, research progress, and the dissertation itself. The thesis advisor, will be primarily responsible for continuing guidance of the student's research.

### **Comprehensive Exam**

Evaluation via the Doctoral Committee to determine the feasibility of proposed research and the preparedness of the student. The exam is administered by the doctoral thesis committee, and consists of both a written and oral portion. The written portion will be a grant proposal based on the students research or topics as approved by the doctoral committee. Students must be registered for classes (typically IBIOS 600) the semester they take this exam.

# **Teaching Requirement (optional)**

With permission of the advisor teaching experience is available on both campuses. An English competency requirement must be satisfied by non-native English speakers before any teaching duties are assigned. Besides an opportunity to develop teaching skills in a classroom setting, students also participate in the Huck Institutes teaching assistant training sessions and receive credit on their transcript by signing up for IBIOS 602 (1). Students interested in this opportunity should initiate discussion early on with their advisor and Graduate Program Chair to help determine the best timing for this experience.

# **Internship (optional)**

With permission of the advisor and after the second year, students may spend a summer exploring academic, government, medical, law, or business corporate approaches to research. Non-traditional settings are available. This is an external work assignment relevant to individual research or career goals. As members of the Huck Institutes of the Life Sciences, all graduate students may participate in a three month internship in academia, industry, or government and receive credit on their transcript by enrolling in IBIOS 595 (1). Students interested in this opportunity should initiate discussion early on with their advisor and Graduate Program Chair to help determine the best timing for this experience.

# **Thesis**

Submission of a written thesis and its defense before the doctoral thesis committee will be the final program requirement. The final oral examination is administered by the doctoral thesis committee and is open to the public. The committee will also evaluate thesis research progress annually, determine when research is sufficient for preparation of the thesis, and pass or fail the student based on the written thesis and an oral defense. Students must follow the thesis guidelines outlined by the Graduate School.

#### TOPICS FOR DISCUSSION PRIOR TO JOINING A LABORATORY

- 1. Time Commitment Expected in the Lab
- 2. Funding Source and Grade Level
- 3. Vacation and Leave Policy (see below)
- 4. Possibility of Internship and/or TA
- 5. Access to Advisor
- 6. Possibility (expectations) for publications and conference presentations

#### **Student-Faculty Compact**

(adapted from the Recommendation of The Committee on Graduate Student and Faculty Issues, The Graduate Council, The Pennsylvania State University, 2009 and The Document approved by the Penn State Hershey Graduate Program Directors May 6, 2006 and updated April 22, 2010)

#### **Purpose:**

Student-Faculty Compacts are useful to encourage good communications and to enhance the working environment in student-advisor/mentor relationships. Compacts provide a basis for discussion between students and advisors/mentors regarding mutual responsibilities and future plans.

"The compact serves as both a pledge and a reminder to advisors and their graduate students that their conduct in fulfilling their commitments to one another should reflect the highest professional standards and mutual respect."

Items that should be discussed by students and potential mentors prior to choosing a permanent laboratory situation.

# Expectations of the Advisor towards Graduate Students in a Laboratory Professionalism/Honesty/Ethics

The Graduate Student will:

Perform research and other educational activities conscientiously, maintain good research records and catalog and maintain all tangible research materials that result from the project.

Respect all ethical standards when conducting research including compliance with all institutional and federal regulations.

Show respect for and work collegially with my co-workers, support staff and other individuals with whom I interact.

Do your best to satisfy all project deadlines outlined by the advisor.

Communication

Outline a defined program of research with the advisor that will include well defined goals and timelines. Organize time to meet these deadlines.

Have open and timely discussions with the advisor on a regular basis regarding the status of the research.

Seek regular feedback on performance and expect annual performance evaluations.

Understand that you have a responsibility with the advisor to write up, in a timely manner, research findings for publication and presentation at professional meetings.

# **Expectations of the Graduate Students in a Laboratory of the Advisor**

### **Training and Education**

# The Advisor will:

Set a mutually agreed upon set of expectations and goals at the beginning of the outset of the student's admission to the laboratory. These will be reviewed and revised periodically as the student progresses through the program.

Acknowledge that the purpose of the training that graduate students receive is to prepare them to become independent professionals.

Work to prepare students for required program examinations and committee selections.

- i. Read the student's thesis and other writing thoroughly and carefully and in a timely manner.
- ii. Provide the student with the required guidance and mentoring as needed.
- iii. Encourage the interaction of the student with other students and faculty, both intra and extramurally and encourage attendance at professional meetings to network and to present research findings.
  - 2. Communication
- i. Meet with the student periodically over the course of each academic semester and no less than once per semester to review goals and progress.
- ii. Acknowledge contributions to the development of any intellectual property and define future access to tangible research materials according to institutional policy.
- iii. Discuss, in advance, appropriate authorship and co-authorship roles on all relevant publications and presentations

#### **Exiting a Student-Faculty Relation**

"Student-faculty relations are sustainable in large measure because of a compatible fit between the student and the faculty member. On occasion, the fit may be less than either a student or a faculty advisor initially anticipated, resulting in one or the other seeking to end the relation, even though the student is making satisfactory progress based on the perspectives of all concerned. Neither party should view these situations negatively; rather they represent mid-course corrections intended to improve the student's academic and professional mentoring by faculty.

The party wishing to leave the student-faculty relation should request a meeting with the other party, and possibly the student's committee, to discuss his/her concerns and recommendations. If an alternative advisor has not been identified prior to this meeting, consideration of possible options would be appropriate. In the end, advancing the student's academic program should be the prime objective for changing advisors."

# Vacation and Sick Leave

Full-time graduate students in the Immunology and Infectious Disease Intercollege Graduate Degree Program (IGDP) who receive stipends must get permission for all absences from the laboratory. Vacation leave should be arranged with the Immunology and Infectious Disease Graduate Program Chair (1st year students) or thesis advisor (2nd year and above students). Please consult with your thesis advisor for policies in place that restrict and or regulate both vacation and/or sick leave within the individual research laboratories. Students must formalize their vacation dates in writing and in advance two (2) months notice is desirable and, to alleviate any possible confusion, vacation requests should be made in writing. The Immunology and Infectious Disease IGDP Chair or student's thesis advisor will agree or disallow the vacation request in writing within 72 hours of its submission. All other reasons for leave (i.e. sickness, maternity/paternity leave, illness of a family member etc.) also require approval from either the Graduate Program Chair (1st year) or thesis advisor (2nd year and above students). It is the student's responsibility to contact their thesis advisor or IGDP Chair when he/she is absent from the classroom or laboratory due to illness.

# Immunology and Infectious Diseases (IID) Curriculum

#### **Requirements**

Students are expected to have a foundation and basic knowledge in immunology, infectious diseases, molecular biology, cell biology, biochemistry, and virology. Required courses are designed to fulfill this aspect of the training. Students must have a minimum of 30 credits. IBIOS 595 (Internship) and 596 (Rotations) credits all count toward the 30 credits. 18 credits need to be in the major at the 500-600 level. Up to 6 IBIOS 600 credits may be A-F graded and 12 credits need to be in the major at the 400-500 level. Additional course work is left to the discretion of the student, advisor and doctoral committee.

IBIOS 590 COLLOQUIUM (2 credits) All students are required to enroll for 4 credits of colloquium.

IBIOS 591 ETHICS IN THE LIFE SCIENCES (1 credit)

**IBIOS 596** INDEPENDENT STUDIES: LABORATORY ROTATIONS (1-3 credits per semester)

**IBIOS 600** THESIS RESEARCH (1-9 credits per semester)

**IBIOS 601** THESIS PREPARATION (0 credit per semester) For those students who passed their comprehensive exams (For Ph.D. students only)

**IBIOS 511** MOLECULAR IMMUNOLOGY (2)

VB SC 432 ADVANCED IMMUNOLOGY: SIGNALING IN THE IMMUNE SYSTEM (3)

**BMMB 501** CORE CONCEPTS IN BIOMOLECULAR SCIENCE (5)

Register for CITI on-line RCR course (see p. 3)
Submit CITI RCR Course Completion Report to Program Office

<u>Supporting Courses (not an exclusive list, with approval from advisor/program director other courses can be substituted)</u>

**IBIOS 595** INTERNSHIP (1)

VB SC 602/IBIOS 602 SUPERVISED EXPERIENCE IN COLLEGE TEACHING. (1)

**IBIOS 570** BORTREE SEMINAR SERIES (2)

**IBIOS 551** GENOMICS (3)

IBIOS/VB SC/BMMB 515 INNATE IMMUNITY (2)

IBIOS/VB SC/BMMB 516 VIRAL EVASION OF IMMUNE RESPONSES (2)

IBIOS/VB SC/BMMB 518 T CELL RECOGNITION AND DEVELOPMENT (2)

IBIOS/VB SC/BMMB 519 DEVELOPMENT OF THE HEMATOPOIETIC AND VASCULAR SYSTEM (2)

**VB SC 597A** READINGS IN IMMUNOLOGY (1)

VB SC 520 PATHOBIOLOGY (3)

**VB SC 514** PROSTAGLANDINS AND LEUKOTRIENES (2)

VB SC 591 DISEASE RESARCH MODULES (A-I) (1 credit each)

VB SC/MICRO 410 PRINCIPLES OF IMMUNOLOGY (3)

VB SC 432 VIRAL PATHOGENESIS (2)

VB SC 451 IMMUNOTOXICOLOGY OF DRUGS AND CHEMICALS (3)

**BIOL 412** ECOLOGY OF INFECTIOUS DISEASES

**BIOL 439** PRACTICAL BIOINFORMATICS (3)

**BIOL 497A** EVOLUTION OF INFECTIOUS DISEASE

**BIOL 428** POPULATION GENETICS

ENT 420 INTRODUCITON TO POPULATION DYNAMICS

**NUTR597D** READINGS IN MOLECULAR NUTRITION (1.5)

**STAT 500** STATISCTICS (3)

The Graduate School requires all graduate students to maintain a 3.0 grade-point average.

<b>General Information</b>	
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# Courses available for all Huck Institutes' Graduate Programs

**IBIOS 590. HUCK INSTITUTES' COLLOQUIUM** (2) Students typically take this course in the Fall and Spring semesters of their first year. In Colloquium, students are introduced to a wide variety of topics of contemporary and future importance in the life sciences. A particular focus is placed on topics where science is likely to impact on society (and society on science). Topics are drawn from the area introduced by the speaker and can span the entire spectrum from basic research to the social, legal, moral and ethical implications of the science. A significant challenge in Colloquium is to organize and coordinate a presentation using contemporary presentation software, such as PowerPoint, in an environment in which part of the audience is present at a remote site. Students are required to attend the lectures and the dinners following the lectures. Students also participate in the group presentations during discussion sessions and submit written reports. Reports may be submitted to the co-chairs of the graduate program/option who may add them to the student's permanent record. Students receive A-F quality grades.

**IBIOS 591. ETHICS IN THE LIFE SCIENCES** (1) Students examine integrity and misconduct in life sciences research, including issues of data collection, publication, authorship, and peer review. Students receive A-F quality grades.

**IBIOS 595. INTERNSHIP** (1, optional) For students interested in exploring academic, government, medical, law, or business corporate approaches to research. This is an external work assignment relevant to individual research or career goals. Students receive a R (satisfactory/passing) or U (unsatisfactory/failing). Only R credits are counted for credit totals. Students typically participate in an internship the summer of their first year. Contacts, positions, applications, course registration, course requirements, and grading are processed through the Eberly College of Science Cooperative Education Program (814-865-5000). Additional credits of IBIOS 595 are at the expense of the student. Interested Huck Institutes' graduate students are to discuss the opportunity with their graduate program/option chair and/or their faculty advisor to help determine the best timing for this experience.

**IBIOS 596. INDEPENDENT STUDIES: LABORATORY ROTATIONS** (1-3 per semester pending graduate program) For students exploring potential Ph.D. projects and faculty advisors. Students receive a R (satisfactory/passing) or F (unsatisfactory/failing). Only R credits are counted for credit totals.

**IBIOS 600. THESIS RESEARCH** (1-9 per semester pending graduate program) For students who have been matched with a faculty advisor AND have not taken/passed their comprehensive exams. Students may receive A-F grades or R/F grades at any time. By the time students pass their comprehensive exams, up to 12 credits worth of IBIOS 600 may have the A-F quality grade.

**IBIOS 601. THESIS PREPARATION** (0 per semester) For those students who passed their comprehensive exams. This course appears on the transcript but does not have any grade or credit associated with it.

**IBIOS 602. SUPERVISED EXPERIENCE IN COLLEGE TEACHING** (1) Students receive either a lecture, lab, or recitation class to help teach. Students also participate in the Huck Institutes teaching assistant training sessions and receive A-F grades on their transcripts from their faculty course supervisors. Please note that these grades are not computed in with the overall GPA. International graduate students must pass an English proficiency exam before any teaching duties are assigned.

# **English Requirement for International Students**

The English Requirement for International students is that prescribed by the Graduate School. Depending on the graduate program, all entering international students, whether or not they hold a Teaching Assistantship, will be required to take the American English Oral Communicative Proficiency Test (AEOCPT) which is administered by the University's Department of Applied Linguistics.

Given at the beginning of fall and spring semesters, international students are required to pre-register for the AEOCPT. The test scores from the AEOCPT are posted on the University's Administrative Information System (AIS) computer. Below is the course of action for the various AEOCPT score ranges.

**NR** = **No Restrictions.** This person should be allowed to teach with no restrictions based on ability to communicate in English.

(Penn State AEOCPT Score of 250-300)

**WR** = **Take ESL 118G**. This person should not be allowed to teach before completing and receiving a grade of "A" in ESL 118G - "American Oral English for ITA's III."

(Penn State AEOCPT Score of 230-249)

TC = Take ESL 117G. This person should not be allowed to teach before completing and receiving a grade of "A" in both ESL 117G -"American Oral English for ITA's II" and ESL 118G - "American Oral English for ITA's III."

(Penn State AEOCPT Score of 200-229)

**SL** = **Speaking/Listening**. This person should enroll in ESL 115G - "American Oral English for ITA's I" and receive a grade of "A" before taking ESL 117G and ESL 118G.

# (Penn State AEOCPT Score below 200)

Students, who are required to enroll in ESL courses, must complete the ESL requirement by the end of the second semester of residency. Students who fail to satisfy this requirement may be terminated from the respective graduate program, at the discretion of the graduate program chair.

#### **Safety Training Sessions / Examinations**

Within the first semester of residence, all students are required to take/pass the radioisotope safety and chemical waste disposal training sessions offered at the respective campus.

# **Grade Point Average**

Credit hours are earned only for the grades A, B, and C. However, all A and F grades are included in the computation of the grade point average. Grade points are assigned as follows:

A = 4 (above average graduate work)

B = 3 (average graduate work)

C = 2 (below average graduate work)

D = 1 (failing graduate work)

F = 0 (failing graduate work)

Grades D and F are not acceptable for graduate credit. If a course is repeated, then both grades are used in computing the cumulative grade point average.

# **Unsatisfactory Scholarship**

Students are required to have a minimum grade-point average of 3.0 for the doctoral candidacy examination, admission to the comprehensive examination, thesis defense, and graduation. One or more failing grades, a cumulative grade-point average below 3.0, or failing any of the examinations may be considered evidence of

unsatisfactory scholarship and be grounds for dismissal from the University (see the Appendix III of the Graduate Programs Bulletin <a href="http://bulletins.psu.edu/graduate/appendices/appendix3">http://bulletins.psu.edu/graduate/appendices/appendix3</a>

#### **Assistantships and Student Status**

Students with teaching or research graduate assistantships must be registered as full time students to maintain stipend eligibility. Full time status is considered either a minimum of nine credits each fall and spring semester (pre-comprehensive exam) or IBIOS 601 (0 credits, post-comprehensive exam). The assistantship appointments typically originate with the department of the faculty advisor. If no faculty advisor has been identified, as likely the situation with first year doctoral students, students should consult with their respective Graduate Program Chair.

#### Thesis Submission and Exit Interview

Upon completion of the degree, students are to provide the Graduate Program with an electronic copy of their thesis. Students also participate in both the University and Huck Institutes' Exit Interview Process. For the latter, students may meet with the Graduate Program Chair or appropriate representative.

RESTRICTIONS: No vacations or other foreseeable leaves (maternity/paternity leave) can be taken unless approved in advance. Approval should be granted unless the leave is believed to seriously compromise the academic progress of the student; in such cases the disapproval must be confirmed by the Immunology and Infectious Disease IGDP Chair. Students will not be routinely granted vacation leave while enrolled in formal class work.

#### **Activate Intent to Graduate**

Students must present their thesis in accordance with the Penn State University guidelines as described in the THESIS GUIDE Requirements for the Preparation of Master's and Doctoral Theses". Current copies can be obtained from the Thesis Office:

115 Kern Building University Park, PA 16802 Phone: 814/865-5448

Web site: http://www.gradsch.psu.edu/gs\_overview/thesisguide

At the beginning of the semester that students wish to graduate, they are to either:

- (1) access eLion via <u>www.eLion.psu.edu</u>, if in the PSU computer system
  - OI
- (2) call Graduate Enrollment at 1-814-865-1795, if not in the PSU computer system

# **Doctoral Thesis Committee Composition**

According to the Graduate Degree Programs Bulletin published by the Graduate School regarding Doctoral Committees: <a href="http://bulletins.psu.edu/bulletins/whitebook/index.cfm">http://bulletins.psu.edu/bulletins/whitebook/index.cfm</a> then click on "Advisors and Doctoral Committees" under the heading "Doctoral Degree Requirements"

- 4 person minimum of approved PSU Graduate Faculty.
- 2 members must be inside the major and 1 member must be outside the major. Note the outside member must be member of the approved PSU Graduate Faculty. The outside member for intercollege graduate programs may be inside the major but committee membership must have representation from more than one department. The outside field member represents a field outside the candidate's major field of study and is expected to provide a broader range of disciplinary perspective and expertise.
- A person not affiliated with PSU may be added as a special member (beyond the 4 members of the approved PSU Graduate Faculty) upon recommendation of the head of the program and approval of the graduate dean. A memo plus the individual's CV must be drafted with approval signature spaces for the Graduate Program Chair plus Ms. Cynthia Nicosia (Director, Graduate Enrollment).
- Have committee chair or one of the co-chairs be a member of the approved PSU Graduate Faculty. Typically this is the faculty advisor or someone in the graduate program.
- The doctoral candidate and three committee members must be physically present for the comprehensive exam and defense. No more than one person may be present via telephone. Telephone or video conference arrangements must be approved by the Dean of the Graduate School. A form letter is available for this special request.
- Need approval of 2/3 of the committee members for passing comprehensive exam and defense dissertation.
- Need to submit paperwork 3-4 weeks prior to your scheduled comprehensive exam and defense. Please contact the appropriate staff member: University Park:

Terrie Young 101 Life Sciences Bldg.; 814-863-3273; tly2@psu.edu

• Please note- Graduate Programs may have additional committee composition criteria.

# Masters (M.S.) Degree

Students are not recruited and/or supported as Masters students. Students who are not making adequate progress through the PhD program and/or enter the PhD program and then have a change of heart may convert into the Masters degree program. Masters students must have a minimum of 30 credits and a 3.0 overall GPA (see Graduate Degree Programs Bulletin <a href="http://bulletins.psu.edu/bulletins/whitebook/index.cfm">http://bulletins.psu.edu/bulletins/whitebook/index.cfm</a>. Under Masters Degree Requirements click on Admission and scroll both directions to see all information about Masters Degree Requirements.

If pursuing a masters thesis option, up to 6 IBIOS 600 credits may be A-F graded and 12 credits need to be in the major at the 400-600 level (excluding IBIOS 600). The students select a thesis committee (upon consultation with faculty advisor), write a thesis, and defend their work.

IBIOS 595 (Internship) and IBIOS 596 (Rotations) credits all count toward the 30 credits. However, any IBIOS 602 (Teaching) credits do not count toward the 30 credits. If all course credits and requirements are met, students do not have to be registered for classes while writing and/or defending their work.

#### **Activate Intent to Graduate**

At the beginning of the semester that a student wishes to graduate . . . . if in PSU's computer system: access e-Lion at www.elion.psu.edu if not; call 1-814-865-1795 to reach Graduate Enrollment

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