

Date of Matriculation \_\_\_\_\_

Name \_\_\_\_\_

I.D.# \_\_\_\_\_

**CHECKLIST FOR THE PHILOSOPHY DEGREE  
MOLECULAR BIOLOGY, MICROBIOLOGY, AND BIOCHEMISTRY PROGRAM, SOUTHERN ILLINOIS  
UNIVERSITY**

**IT IS THE RESPONSIBILITY OF THE STUDENT TO MAINTAIN THIS FORM AND MEET THE REQUIREMENTS ON TIME.** To qualify for a 0.5 FTE assistantship, a minimum of 6 credits must be taken each 16-week semester, and a minimum of 3 credits hours during the 8-week semester. Most students register for 6 hours during the Summer semester and 12 hours during the Fall and Spring semesters.

1. The selected advisor is approved by the Department Chair. If a change of advisor is later required, the student should request a new advisor through the Graduate Advisor with approval of the Department Chair.

**DATE of  
Approval**

2. The committee is comprised of 5 members. In consultation with the principal advisor, select four other graduate faculty members (one outside the department) to form an advisory committee during **the second semester** of graduate study. You need to fill out a form which can be obtained from the MMICB office or be found on Saluki Net. The completed form will be submitted by the MMICB office to the Graduate School for Committee Approval.

- Committee Chair: \_\_\_\_\_
- Committee Member 2: \_\_\_\_\_
- Committee Member 3: \_\_\_\_\_
- Committee Member 4: \_\_\_\_\_
- Committee Member 5: \_\_\_\_\_

**DATE of  
Completion**

**GRADE or  
Credit Hours**

3. Meet with the advisory committee early in the first semester of graduate study in Springfield to plan a tentative course program and research program.
4. Take **PHRM 540** (currently section 703/Brandon Cox): "Responsible Conduct of Research" (offered Fall of odd years) – 1 credit hour
5. ~~Complete animal use training module through CITI "Working with the IACUC" – a certificate is good for 3 years.~~
6. Complete human subjects training through CITI "Protection of Human Subjects" – a certificate is good for 3 years.
7. Complete the CORE courses required for the MBMB program. Must obtain a "C" or better (Biochemistry 451A and 451B).

**DATE of  
Completion**

**GRADE or  
Credit Hours**

a. 9 credits from the following courses:

- MBMB 451A (Biochemistry) – 3 credit hours
- MBMB 451B (Biochemistry) – 3 credit hours
- MBMB 460 (Genetics Bacteria & Viruses Lecture ) – 3 credit hours

Retaken  
Courses:

b. 3 credits from the following courses:

- MBMB 502 (Intro to Research) – 3 credit hours
- MBMB 504 (Research Methods) – 3 credit hour

DATE of  
Completion

GRADE or  
Credit Hours

MBMB 597-1 MUST ATTEND EACH 16-week SEMESTER, NO  
c. SEMINAR IN SUMMER – 1 credit hour (S/U grade only)

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

DATE of  
Completion

d. 24 credits of MBMB 600 (dissertation) (no more than 6 hours before  
candidacy)

Date/ Sem:	Hrs:

Date/ Sem:	Hrs:

Date/ Sem:	Hrs:

DATE of  
Completion

GRADE or  
Credit Hours

8. Complete **three Specialization courses** with no more than one at the 400  
level, from the following list:

*Bolded classes are given in Springfield*

403 – Med Micro Lecture (Spring)
421 – Biotechnology (Fall)
425 – Biochemistry & Phys of Microorganisms Lecture (Fall)
441 - Virology
444 – Risk Assessment for Genetics & Medicine
453 – Immunology Lecture (Spring)
455 – Med Immuno
456 – Biophysical Chem
470 – Prokaryotic Diversity (Spring)
471 – Systems Biology
520 – Adv. Microbial Physics & Control Mechanisms (ad hoc)
<b>521 – Adv. Virology (Spring)</b>
<b>530 – Advanced Cell Biology (Spring)</b>
531 – Molecular & Cell Biology (Fall)
532 – Methods of Structural Bio
533 – Adv. Biochemistry (Every 2 <sup>nd</sup> year)
<b>543 – Host Microbial Interactions (Spring)</b>
551 – Adv Immuno
<b>552 – Cellular Immunology (Fall)</b>
553 – Adv Med Micro & Immuno
<b>560 – Molecular Oncology (Fall)</b>
<b>562 – Molecular Genetics (ad hoc)</b>

The following **Elective classes** can be taken for credit but NOT for fulfilling the requirement of three Specialization Courses:  
**MBMB-570:** 1 to 15 credit hours (1 to 6 per semester) Advanced Topics.  
(Spring or Fall) Advanced Topics in:

DATE of Completion	GRADE or Credit Hours	
_____	_____	A. Molecular Biology
_____	_____	B. Biochemistry
_____	_____	C. Microbiology
_____	_____	D. Immunology
_____	_____	E. Virology
_____	_____	F. Structural Biology
_____	_____	G. Biophysics
_____	_____	H. General Cell Biology

\_\_\_\_\_ 9. MBMB 598 (Research before candidacy).

Date/ Sem:	Hrs:	Date/ Sem:	Hrs:	Date/ Sem:	Hrs:	Date/ Sem:	Hrs:

\_\_\_\_\_ 10. Residency requirement – 24 hrs graduate course work at doctoral level. Maximum of 6 dissertation hours.

Date/ Sem:	Hrs:	Date/ Sem:	Hrs:	Date/ Sem:	Hrs:	Date/ Sem:	Hrs:

\_\_\_\_\_ 11. Pass preliminary exams, meet research tool requirements and be admitted to candidacy.\*

Research Tools \_\_\_\_\_ (Date)  
Prelim. Exams \_\_\_\_\_ (Date)  
Admit to Candidacy \_\_\_\_\_ (Date)

\_\_\_\_\_ 12. Minimum GPA of 3.0

GPA = \_\_\_\_\_

**DATE of  
Completion**

- \_\_\_\_\_ 13. Apply for graduation, first week of the semester in which you plan to graduate.
- \_\_\_\_\_ 14. Write the dissertation with the editorial assistance of the advisor, according to Graduate School requirements. Consult with the Graduate Program Office and the website <https://gradschool.siu.edu/current-students/thesis-dissertation-researchpaper/etd-overview.php> for help with formatting, guidelines, templates, FAQ's, submission process, etc.
- \_\_\_\_\_ 15. Present the draft of the dissertation to the advisory committee and department chair not less than 6 weeks prior to commencement. This time will not be less than 2 weeks prior to the oral examination.
- \_\_\_\_\_ 16. Schedule the oral examination in cooperation with the advisor.
- \_\_\_\_\_ 17. Present the oral seminar and submit to the oral comprehensive examination by the advisory committee. Secure the required signatures on form.
- \_\_\_\_\_ 18. Present a draft of the dissertation to the Graduate School for a format check.
- \_\_\_\_\_ 19. Approximately (4) weeks prior to graduation, submit two copies of the approved dissertation to the Graduate School (Carbondale), one copy to the Department of MMICB (Denise Kauffman) and one to the advisor.

\*Degree conferred not less than 6 months nor more than 5 years after admission to candidacy.  
(This list is an aid to the student. **OFFICIAL REQUIREMENTS ARE THOSE PUBLISHED IN THE GRADUATE CATALOG AT THE TIME OF MATRICULATION.**)

**MEETING DATES WITH THE COMMITTEE**

- |                          |                    |
|--------------------------|--------------------|
| <b>1. First Meeting</b>  | <b>Date:</b> _____ |
| <b>2. Second Meeting</b> | <b>Date:</b> _____ |
| <b>3. Prelim Exams</b>   | <b>Date:</b> _____ |
| <b>4. Third Meeting</b>  | <b>Date:</b> _____ |
| <b>5. Fourth Meeting</b> | <b>Date:</b> _____ |
| <b>6. Fifth Meeting</b>  | <b>Date:</b> _____ |
| <b>7. Defense</b>        | <b>Date:</b> _____ |