

DATE OF MATRICULATION \_\_\_\_\_

NAME \_\_\_\_\_

ID # \_\_\_\_\_

**CHECKLIST FOR THE MASTER OF SCIENCE 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 9 credits must be taken each 16-week semester and a minimum of 3 credit hours during the 8-week semester. Most students register for 3 hours during the Summer semester and 9 hours during the Fall and Spring semesters.

**ADVISOR'S  
DATE INITIALS**

1. Select advisor prior to beginning the second semester of graduate study. The Advisor must be approved by the appropriate Department Chair. If a change of advisors is later required, the student should request a new advisor through the Graduate Advisor with approval of the Department Chair.

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2. In consultation with the principal advisor, select two other graduate faculty Members to form an advisory committee during the second semester of graduate study. You need to complete a form which may be found on Saluki Net to submit to Carbondale for Committee Approval.

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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.

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4. Complete the **CORE** courses required by the M.S. degree. **Must obtain a "C" or better (Biochemistry a and b).**

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- a. **9 credits** from the following courses:

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**MBMB 451a** (Biochemistry) – 3 credit hours

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**MBMB 451b** (Biochemistry) – 3 credit hours

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**MBMB 460** (Genetics Bacteria & Viruses Lecture) – 3 credit hours

**Retaken courses:**

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\_\_\_\_\_

\_\_\_\_\_

- b. **3 credits** from the following courses:

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**MBMB 502** (Intro to Research) – 3 credit hours

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**MBMB 504** (Research Methods) – 3 credit hours

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- c. **MBMB 597-1 (Seminar-graded S/U) MUST ATTEND EACH SEMESTER, NO SEMINAR IN SUMMER. – 1 credit hour**

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- d. At least a total of **8 credit hours** of research and thesis:

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**MBMB 515** (Master's Degree Research),

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**MBMB 598** (Research)

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**MBMB 599** (Thesis) [last semester], a minimum of 3 and maximum of 6 hours.

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**ADVISOR'S  
INITIALS**

**DATE**

- 5. Complete two **Specialization** courses and no more **than one at the 400 Level**, from the following list:

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**403-Med Micro Lecture** (Spring)

\_\_\_\_\_

**421-Biotechnology** (Fall)

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**425-Biochem & Phys of Microorganisms Lecture** (Fall)

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**453-Immuno Lecture** (Spring)

\_\_\_\_\_

**470-Prokaryotic Diversity** (Spring)

\_\_\_\_\_

**520-Adv Microbial Physi & Control Mechanisms** (Ad hoc)

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**521-Adv Virology** (Spring)

\_\_\_\_\_

**530-Advanced Cell Biology** (Spring)

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**531-Molecular & Cell Biology** (Fall)

\_\_\_\_\_

**533-Adv. Biochemistry** (Every 2<sup>nd</sup> year)

\_\_\_\_\_

**543-Host-Microbial Interactions** (Spring)

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**552-Cellular Immuno** (Fall)

\_\_\_\_\_

**560-Molecular Oncology** (Fall)

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**562-Molecular Genetics** (Ad hoc)

**Additional course topics that can be taken for a letter grade but are not specialized courses:**

**570 - 1 to 15 credit hours (1 to 6 per semester) Advanced Topics. (Spring or Fall)** Advanced topics in:

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(a) Molecular Biology

\_\_\_\_\_

(b) Biochemistry

\_\_\_\_\_

(c) Microbiology

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(d) Immunology

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- (e) Virology
- (f) Structural Biology
- (g) Biophysics
- (h) General Cell Biology

**NOTE: THE GRADUATE SCHOOL HAS SPECIFIC MINIMUM SEMESTER HOUR REQUIREMENTS FOR A MASTER'S DEGREE.**

- \_\_\_\_\_ 6. At least **15 hours in courses numbered 500 or above completed at SIU.**
- \_\_\_\_\_ 7. At least **9 hours** after admission to the degree program.
- \_\_\_\_\_ 8. At least **21 hours** of graduate coursework graded A, B, or C.
- \_\_\_\_\_ 9. Courses to be applied to the degree must be taken within 6 years of conferring the degree.
- \_\_\_\_\_ 10. Minimum GPA of 3.00. GPA = \_\_\_\_\_.
- \_\_\_\_\_ 11. Apply for graduation, first week of the semester in which you plan to graduate.
- \_\_\_\_\_ 12. Write the thesis with the editorial assistance of the advisor, according to Graduate School requirements. Consult with the Graduate Program Office And the booklet GUIDELINES FOR THE PREPARATION OF RESEARCH REPORTS, THESIS AND DISSERTATIONS AVAILABLE FROM THE WEBSITE: <http://www.siu.edu/gradschl/dtrguide.htm> prior to final typing.
- \_\_\_\_\_ 13. Present the draft of the thesis to the advisory committee and department Chair not less than six weeks prior to commencement. This time will not be less than two weeks prior to the oral examination.
- \_\_\_\_\_ 14. Schedule the oral examination in cooperation with the advisor.
- \_\_\_\_\_ 15. Present the oral seminar and submit to the oral comprehensive examination by the advisory committee. Secure the required signatures on form.
- \_\_\_\_\_ 16. Present a draft of the thesis to the Graduate School for a format check.
- \_\_\_\_\_ 17. Approximately four (4) weeks prior to graduation, submit two copies of the approved thesis to the Graduate School (Carbondale), one copy to the Dept. of Medical Microbiology, Immunology & Cell Biology (Theresa Casson) and one to the advisor.

**THIS LIST IS AN AID TO THE STUDENT. OFFICIAL REQUIREMENTS ARE THOSE PUBLISHED IN THE GRADUATE CATALOG AT THE TIME OF MATRICULATION. The Master of Science degree should be obtained within 24 months with a possible extension of 1 semester.**

Updated 5/28

**MEETING DATES WITH THE COMMITTEE**

- 1. First Meeting**                      **Date:** \_\_\_\_\_
- 2. Second Meeting**                **Date:** \_\_\_\_\_
- 3. Defense**                            **Date:** \_\_\_\_\_