WASHINGTON STATE UNIVERSITY
SCHOOL OF MOLECULAR BIOSCIENCES

PROFESSIONAL SCIENCE MASTER’S DEGREE
ONLINE

GRADUATE STUDENT HANDBOOK
2016 – 2017

NATIONAL PROFESSIONAL SCIENCE MASTER’S ASSOCIATION
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Current forms are available, in PDF or Word format, from the Graduate School website: www.gradsch.wsu.edu/Forms
SMB DIRECTOR’S STATEMENT

On behalf of the faculty, staff and students of the School of Molecular Biosciences (SMB), I welcome your participation in our Professional Science Master’s degree program. Our PSM program, the first in the State, was established in 2010. As of Spring 2016, we have admitted 57 students, 43 of whom have been online students and 14 Pullman campus students. During this time we have graduated 20 students. It is the goal of our program to instill in students the professional scientific skills that fit the emerging job market. Our program is relevant and student friendly. Most important, our graduates are highly valued by their employees for their scientific insight and knowledge. The outstanding faculty of SMB will engage you directly. However, I emphasize that at the conclusion of your program you will possess the all-important skill of self-directed learning. Welcome to SMB and enjoy an unforgettable educational experience.

Jonathan Jones Professor, Director, School of Molecular Biosciences

ACKNOWLEDGMENTS

This handbook specifically for the School of Molecular Biosciences (SMB) Professional Science Masters (PSM) graduate students is a compilation of documents and information from many sources and is a revision of the SMB Graduate Student handbook. Some parts came from the WSU Graduate School, but many are derived from the efforts of current and former SMB faculty, faculty associates, graduate students and staff. There are too many valued contributors to acknowledge each individually, and the list grows with each yearly up-date. However, special thanks go to the former Associate Directors for Graduate Studies who generated many of the initial documents (Dr. Kathleen (Kotty) Postle and Dr. Kwan Hee Kim who had the vision to first assemble the SMB Graduate Handbook); current and past members of the Graduate Studies Committee; current and past officers of the Molecular Biosciences Graduate Student Association (MBGSA)—especially Matt Stump and Trisha Brock who put together the original Survival Guide for first year students; and Dr. Ron Brosemer for his detailed and witty instructions for student seminar presentations. In addition this revised handbook was compiled with the help of Jane E. Lotz-Drlík, Graduate Assistant, and Tyler Smith from the Graduate School, and Kelly McGovern and Tami Breske from SMB.
Program Mission Statement:

The Professional Science Master’s (PSM) degree in molecular biosciences is designed to help students transition efficiently into the workplace by training them in skills that employers need. This program provides graduate training in science and Professional (non-science) course work, coupled with a workplace based Internship. An active employer based advisory board provides input on curriculum and internship opportunities such that the training is current and aligns with current and future job openings. This program is an alternative to the traditional Master’s in Science offered by SMB, and will serve those students who want to pursue careers in science that require skills in management, communication and business.

The PSM program offers graduate students:

- Interdisciplinary training
- Development of professional skills for entering their chosen career
- Opportunities for advancement and enrichment in their current careers
- Additional education for career change and increased compensation
- Science and non-science skills to compete in the global economy
- A ‘hands-on’ internship in a workplace

This interdisciplinary degree aims to:

1.) Arm graduate trainees with the necessary skills and tools to identify and solve modern biological problems at the molecular level.

2.) Provide trainees with the professional skills that will allow them to compete effectively and transition efficiently into current and future employment in industry, academia, agriculture or government.

3.) Provide graduate students with ‘hands-on work’ in a workplace, so that they can experience the applicability of their graduate course content.

Student Learning Outcomes and Assessments:

WSU PSM graduates will have more avenues for remaining in science, having gained skills needed to secure well-paying jobs without pursuing a traditional science graduate degree. Students will be expected to gain the following learning outcomes from this interdisciplinary/cross training program. The student learning outcomes and methods of assessment are as follows;

1. Application of Science Learning. Students will demonstrate a deep knowledge of molecular bioscience principles as assessed by mastery of content in their graduate science course work. In addition, students will apply molecular bioscience knowledge in their internship work. This application will be assessed by the Internship report and the final examination. (Appendix A, E, F and H)

2. Critical Thinking. Students will demonstrate the general intellectual skills of critical thinking with respect to professional and scientific issues. In addition, students will
demonstrate critical thinking attributes as defined by WSU critical-thinking rubric. This will be assessed by mastery of both science and professional course work. (Appendix A)

3. **Independent Learning.** Students will demonstrate an ability to learn and function independently, understand scientific, societal and technical issues they encounter and address them appropriately and professionally in the workplace. This will be assessed by the internship mentor who will be asked to complete a Mentor Evaluation of Student form (APPENDIX F).

4. **Teamwork.** Students will be able to work in teams comprised of scientists, business administrators and project managers. In their internships, students will demonstrate ability to work in the above as well as communicate effectively with their mentors and supervisors. This will be assessed formally by the submission of the completed Student Evaluation of Internship Experience form (APPENDIX E) and the completion by the mentor of the Mentor Evaluation of Student form (APPENDIX F).

5. **Biosciences Design.** Students will be able to creatively apply design principles and methods to the solution of problems, recognizing the potential applications of business principles to molecular biosciences and biosciences principles to business and marketing.

6. **Experimentation.** Students will be able to apply experimental methods and creativity to scientific investigation about bioscience, health and medical issues in the business sector. In professional courses, students will demonstrate these abilities in completion and evaluation of their projects.

7. **Professional Ethics.** Students will be able to apply ethical principles to professional decision making. In the Internship work and project management curriculum, students will demonstrate awareness and application of ethical principles in project completion.

8. **Communication.** Students will be able to communicate effectively both verbally and in written form in the interdisciplinary worlds of business administrators, scientists, marketing and other professionals. In both the internship and professional communication course students will demonstrate their abilities to communicate effectively with others through oral presentations and written reports.

9. **Career Awareness.** Students will be aware of diverse career options in which they will use their science training. Students will be exposed to science from different perspectives including the professional course work and their workplace experience during the internship.

**ADMISSIONS INFORMATION**

The School of Molecular Biosciences offers Ph.D. and M.S. degrees in Molecular Biosciences with discipline-specific options in Biochemistry, Genetics & Cell Biology, Microbiology and more recently a Professional Science Master’s Degree (PSM).

- Students wishing to pursue graduate studies in SMB should have an undergraduate major in biochemistry, biophysics, cell biology, genetics, microbiology, biology, chemistry or closely related fields.
- Expected undergraduate coursework includes general biology, general and organic
chemistry, biochemistry, physics, calculus and/or statistics, and some advanced biology courses (such as genetics, cell, developmental or molecular biology or microbiology).

Please follow the instructions on the Graduate School website on how to apply. Application materials must include:

**All students (domestic and international):**

a. **Graduate School Application and a $75 application fee:** Forms and instructions are available through the [WSU Graduate School](#) website.

b. **PSM Supplemental Application Form:** The School of Molecular Biosciences requests supplemental information on the PSM Application Form that is separate from the Graduate School application. The SMB document requests TOEFL scores and includes guidelines for your personal statement which describes your interests, accomplishments, and academic awards. On-line forms are available through the [PSM Supplemental Application Form](#).

c. **SMB requires three letters of recommendation.** Please follow the “on line” application with the Graduate School to have your letters of recommendation submitted on line.

d. **Transcripts** should be sent directly to the WSU Graduate School.

e. **TOEFL scores** for **international applicants** who have not earned a previous degree from a US institution, within the last two years of your expected admission date. A TOEFL score of at least 100 (internet based exam) is required.

f. **WSU requires financial verification** before an on-campus based **International student** file may be processed for admission. The Graduate School will notify the student by email requesting a current official bank statement, and an affidavit of support if the student is being sponsored. Student self-support, support from parents, friends, or relatives all require official bank verification with the original signature of the bank official and the bank seal.
PROFESSIONAL SCIENCE MASTER’S PROGRAM CONTACTS

Norah R. McCabe,
Ph.D. Director, PSM
Biotechnology and Life Sciences
102B
509-335-1134
nrmccabe@vetmed.wsu.edu

Tami Breske
Graduate Academic Coordinator
Biotechnology and Life Sciences 102C
509-335-4318
tbreske@vetmed.wsu.edu

GRADUATE PROFESSIONAL STUDENT ASSOCIATION (GPSA)

The WSU Graduate and Professional Student Association (GPSA), welcomes you to Washington State University. The GPSA is the representative body for graduate and professional students at Washington State University. The primary role of the GPSA is to provide academic and professional support services and programs. Through active participation and membership in numerous university committees and organizations, the GPSA provides graduate and professional students with representation and a forum to express concerns. The GPSA strives to improve the quality of education and the student experience at Washington State University.

We in the GPSA hope that you will access our website at http://www.gpsa.wsu.edu/ and enjoy the support and participation offered through GPSA Services, Committees, Wellbeing and Activities. We encourage you to contact us with questions or concerns.
MOLECULAR BIO SCIENCES GRADUATE STUDENT ASSOCIATION

MBGSA would like to welcome you to Pullman and the Washington State University School of Molecular Biosciences (SMB)! The Molecular Biosciences Graduate Student Association (MBGSA) is a student-led organization that seeks to unite the graduate students in SMB. Even though you are an online student we want you to connect with your graduate peers in SMB. MBGSA provides an effective and influential voice for the students’ viewpoint regarding various departmental issues and acts as a liaison between students, faculty, and administration. MBGSA also works closely with the WSU Graduate and Professional Student Association (GPSA), enabling graduate students to have an active voice in matters of WSU policy. Some of the following Handbook information (First Year Graduate Student Orientation Guide) has been compiled by the MBGSA to ease your transition to the Professional Science Master’s Program at WSU.

**MGBSU Officers for 2016-2017**

Natalie Peer (President)  
NPeer@vetmed.wsu.edu

Amber Hughes (Vice-President)  
amberhughes@vetmed.wsu.edu

Andrea Connor (Secretary/Treasurer)  
andreaconnor@vetmed.wsu.edu
## CORE MBioS Faculty

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>RESEARCH and TEACHING ACTIVITY</th>
</tr>
</thead>
</table>
| Alderete, John| Professor           | The study of parasite and host cell-tissue interactions focused on proteins that contribute to infection and disease pathogenesis in Trichomonas vaginalis.  
MBioS 503 Molecular Biology I; MBioS 494 Senior Project in Molecular Biosciences |
| Black, Margaret| Professor           | Combination of molecular evolution, pathway engineering and extensive in vitro and in vivo analyses to improve and evaluate suicide genes for gene therapy of cancer.  
MBioS 494 Senior Project in Molecular Biosciences |
| Brosemer, Ron  | Professor           | MBioS 303 Introductory Biochemistry; MBioS 320 DNA and Society                                                                                                  |
| Chai, Weihang# | Assoc Professor     | Telomere structure, maintenance and function                                                                                                                   |
| Goodman, Alan  | Assis Professor     | The host immune response to pathogenic infection                                                                                                                |
| Gloss, Lisa    | Assoc Professor     | Macromolecular assembly and folding of proteins: the core histones of the nucleosome and halophilic enzymes  
MBioSS 413/513 General Biochemistry I; MBioS 514 General Biochemistry II; MBioS 508 Quantitative Approaches in Molecular Biosciences; MBioS 541 Research Seminar |
| Griswold, Michael| Regent’s Professor  | Biochemistry and molecular biology of mammalian spermatogenesis with emphasis of testicular somatic cells  
MBioS 579 Molecular Biosciences Seminar |
| Hassold, Terry  | Professor           | Meiotic chromosome abnormalities  
MBioS 423 Human Genetics; MBioS 579 Molecular Biosciences Seminar                                                                                           |
<p>| Helmick, Consetta| Clinical Assoc Professor | MBioS 101 Introductory I Microbiology, MBioS 305 General Microbiology                                                                                      |</p>
<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>RESEARCH and TEACHING ACTIVITY</th>
</tr>
</thead>
</table>
| Her, Chengtao | Assoc Professor | The roles of mismatch repair genes in human cancer  
MBioS 503 Molecular Biology I; MBioS 504 Molecular Biology II |
| Hunt, Patricia | Professor | Meiosis in mammalian germ cell development  
MBioS 507 Critical Analysis of Scientific Literature;  
MBioS 579 Molecular Biosciences Seminar |
| Hunzicker-Dunn, Mary | Professor | Elucidate the signaling pathways by which the prototypical glycoprotein hormones follicle stimulating hormone (FSH) and luteinizing hormone (LH) signal to initiate cellular responses of differentiation and proliferation  
MBioS 401/501 Cell Biology, MBioS 529 Selected Topics in Cell Biology |
| Kahn, Michael | Professor | Biochemistry, genetics and physiology of metabolism in the nitrogen-fixing symbiosis between rhizobia and legume plants |
| Kim, Kwan Hee | Professor | Vitamin A signaling circuitry in reproductive organs; Reproductive toxicology by plasticizer phthalates  
MBioS 401/501 Cell Biology; MBioS 529 Selected Topics in Cell Biology |
| Konkel, Michael | Professor | Bacterial pathogenesis, identification and characterization of virulence determinants in *Campylobacter jejuni*  
MBioS 410 Medical Microbiology; MBioS 411 Diagnostic Medical Bacteriology |
| McCabe, Norah | Clinical Assoc Professor | MBioS 301 General Genetics; MBioS 423 Human Genetics;  
MBioS 494 Senior Project; MBioS 702 Internship for PSM students |
<p>| Mixter, Phil | Clinical Assoc Professor | MBioS 101 General Microbiology; MBioS 305 General Microbiology; MBioS 342 Microbial Ecology; MBioS 410 Medical Microbiology; MBioS 548 Selected Topics in Immunology and Virology |</p>
<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>RESEARCH and TEACHING ACTIVITY</th>
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<tbody>
<tr>
<td>Nilson, John H.</td>
<td>Emeritus Professor</td>
<td>Molecular mechanisms that control the fate of germline stem cells and the determinants of the stem cell niche in mammalian testes</td>
</tr>
<tr>
<td>Oatley, Jon</td>
<td>Assoc Professor</td>
<td>Molecular mechanisms that control the fate of germline stem cells and the determinants of the stem cell niche in mammalian testes</td>
</tr>
<tr>
<td>Roberts, Kenneth P.</td>
<td>Assoc Professor</td>
<td>Epididymal sperm maturation and sperm function</td>
</tr>
<tr>
<td>Roberts, Steven A.</td>
<td>Asst Professor</td>
<td>Genome dynamics: mechanisms of mutation and chromosome alteration that contribute to human disease. Mutagenesis of ssDNA in cancer</td>
</tr>
<tr>
<td>Sanchez-Lanier, Mary</td>
<td>Clinical Assoc Professor</td>
<td>MBioS 442/542 Virology; MBioS 548 Selected Topics in Immunology and Virology</td>
</tr>
<tr>
<td>Shelden, Eric</td>
<td>Assoc Professor</td>
<td>Cytoskeletal regulation and dynamics during injury, migration and differentiation of mammalian cells. MBioS 303 Introductory Biochemistry; MBioS 401/501Cell Biology; MBioS 529 Selected Topics in Cell Biology</td>
</tr>
<tr>
<td>Sylvester, Steven R.###</td>
<td>Assoc Professor</td>
<td>MBioS 320 DNA and Society; MBioS 303 Introductory Biochemistry</td>
</tr>
<tr>
<td>Wang, Susan</td>
<td>Assoc Professor</td>
<td>Mechanistic enzymology (&quot;unusual&quot; enzyme catalysis) and antibiotic biosynthesis. MBioS 305 General Microbiology</td>
</tr>
<tr>
<td>Watts, Jennifer L.</td>
<td>Assoc Professor</td>
<td>Genetics and genomics of lipid metabolism and fat storage in C. elegans. MBioS 402 General Genetics Laboratory</td>
</tr>
<tr>
<td>Wyrick, John</td>
<td>Assoc Professor</td>
<td>Regulation of eukaryotic genome expression; histone acetylation; and the development of new functional genomic and bioinformatic tools. MBioS 478/578 Bioinformatics</td>
</tr>
<tr>
<td>NAME</td>
<td>TITLE</td>
<td>RESEARCH AREA</td>
</tr>
<tr>
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<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Brayton, Kelly</td>
<td>Assoc Professor</td>
<td>Genome sequence and transmission biology of <em>Anaplasma marginale</em></td>
</tr>
<tr>
<td>Brown, Wendy</td>
<td>Regent’s Professor, Vet</td>
<td>T lymphocyte responses to tick-borne pathogens of cattle and for the use of T lymphocytes to identify promising vaccine antigens</td>
</tr>
<tr>
<td>Call, Doug</td>
<td>Professor, Vet Micro Path</td>
<td>Evolution and persistence of antibiotic resistance; molecular epidemiology; comparative genomics, transcriptomics, and proteomics of pathogens; detection pathogens in complex matrices; and aquaculture health</td>
</tr>
<tr>
<td>Harding, Joseph</td>
<td>Professor, VCAPP</td>
<td>Lipids in membrane function and cellular signaling</td>
</tr>
<tr>
<td>Kang, ChulHee</td>
<td>Professor, Chemistry</td>
<td>Looking for new therapeutic strategy by understanding DNA/RNA/Protein-Protein interaction via Crystallography and Protein engineering</td>
</tr>
<tr>
<td>Lange, Marcus B.</td>
<td>Assoc Professor, Inst of Biol Chem</td>
<td>Pathways leading to natural products (with an emphasis on isoprenoids) using functional genomics and systems biology approaches</td>
</tr>
<tr>
<td>Lau, Audrey</td>
<td>Asst Professor, Vet Micro Path</td>
<td>Host-pathogen interaction using apicomplexan as the model system</td>
</tr>
<tr>
<td>Lavine, Laura</td>
<td>Assoc Professor, Entomology</td>
<td>Genetic basis for adaptive phenotypic plasticity in insects using a combination of evolutionary and developmental biological approaches</td>
</tr>
<tr>
<td>Moffett, David</td>
<td>Professor, Biological Sci</td>
<td>Cell biology of epithelial transport, particularly mechanisms for generating extremely alkaline secretions</td>
</tr>
<tr>
<td>Rodgers, B. Dan</td>
<td>Assoc Professor, Animal Science</td>
<td>Molecular endocrinology and genomics of muscle development</td>
</tr>
<tr>
<td>Thomashow, Linda</td>
<td>USDA/ARS, Adjunct Professor, Plant Path</td>
<td>Molecular genetics of bacterial-plan and bacterial-fungal interactions</td>
</tr>
<tr>
<td>Thorgaard, Gary</td>
<td>Professor, Biological Science</td>
<td>Genetic manipulation, mapping and analysis in trout and salmon</td>
</tr>
<tr>
<td>Trobridge, Grant #</td>
<td>Asst Professor, Pharm Sci</td>
<td>Oncogene discovery using retroviruses and stem cell gene therapy for HIV infection</td>
</tr>
</tbody>
</table>

*Tri-Cities campus
#Spokane campus
##Vancouver campus
A. GRADUATE STUDENT ORIENTATION GUIDE

1. Annual SMB retreat and PSM Orientation during The Week of Welcome

All PSM students are encouraged to attend the PSM Workshop, planned for the afternoon of August 19, 2016 after the SMB Annual Retreat, being held on August 19, 2016. Please plan on being in Pullman on August 19 to attend these two events. The primary purpose of the retreat is to welcome you to WSU, to afford you a meeting opportunity with SMB faculty and WSU personnel, provide important SMB graduate program information, guide you through the class registration process, and advise you regarding expectations and responsibilities of a graduate student. You will also have your photograph taken at the PSM Workshop. This picture will be used in various SMB displays to help faculty, staff, and students learn who you are. You will receive an e-mail giving the exact time of the orientation and annual retreat. As an online student, attendance at the PSM Workshop and Annual SMB Annual Retreat is highly recommended. SMB will assist with hotel charges for one night in a local hotel. For more information on the SMB Annual Retreat see the paragraph below.

Annual School Retreat
There is an annual SMB retreat every August. Students, postdoctoral fellows, research associates, faculty, and SMB associate faculty are all in attendance. The retreat begins our academic year by building community spirit, offering recognition of achievements, and stimulating scientific curiosity and collaborations. This is one way we can learn more about each other, develop new interactions, and celebrate both individual and collective accomplishments. The focus of the retreat will vary from year-to-year, but will include an overview of the scientific accomplishments of the school during a poster session, professional development seminars, and ample opportunities for scholarly and social networking amongst the members of the school. Attendance by all members of SMB is essential to meet the goals of the annual retreat; therefore, we aim for 100% participation. As stated above we highly recommend attendance by all our PSM students, and in particular for online students as this may be one of the few opportunities you might get to meet faculty before having to populate your graduate committee.

2. Student Academic Advising during the PSM Workshop
The PSM Director will discuss courses during the PSM workshop to give advice on course selection and availability. After the orientation you will be able to register for classes using myWSU. From this site, you can also access the WSU Time Schedule of Classes and the WSU catalog. At the orientation, we will also discuss some relevant Graduate School Policies, which are also found in this handbook. If you cannot attend the workshop in person, you are strongly encouraged to attend remotely via audio and or video. We can set that up for you, just send an email to Tami at tbreske@vetmed.wsu.edu

3. Cougar/WSU ID Card and WSU Network Access
If you desire, you can purchase a WSU ID Card. It is not mandatory. The Compton Union Building (CUB), Room 60, is where you get your Cougar Card, the official multi-purpose WSU photo ID card. A Cougar Card is required for access to library privileges, student discounts, and admission to other university events and activities. To obtain your Cougar Card, you will need your WSU ID number and one piece of photo ID.
All incoming graduate students are required to set up a Network ID and a WSU e-mail account. Many essential SMB communications with students are done through e-mail. Servers such as Hotmail, AOL and YAHOO ARE NOT ADEQUATE FOR OUR PURPOSES, AS THEY CANNOT BE USED ON the Exchange server mail lists and often lose important emails and attachments. **You must check your WSU email regularly; not receiving information because you didn’t check your email is not an acceptable excuse.** You can set up a Network ID and a WSU account as well as change your mailing address to a local address by logging onto *myWSU* through [http://www.wsu.edu/](http://www.wsu.edu/). Portal setup information may be located here: [https://wsu.edu/psportal/pages/help.html](https://wsu.edu/psportal/pages/help.html). SMB computer support personnel will be available to help you set up your WSU email service on the Exchange Server. As soon as you know your physical address and have set up your email address please let Tami know at 509-335-4318 or at tbreske@vetmed.wsu.edu.

4. **International Student Information**  
   International students are required to attend orientation sessions that include explanations about immigration regulations, social security number application, etc. offered by the OISS for new incoming students. For more information, visit online [https://ip.wsu.edu/future-students/graduate-students/](https://ip.wsu.edu/future-students/graduate-students/)

5. **Meetings, Room Reservations, Equipment Checkout**  
   For most types of meetings that you have to schedule (graduate committee meetings and presentations), you have to schedule the room yourself. Any of the staff in Biotech/Life Science (BLS) 102, at 335-4566, or in BLS 202, at 335-8751, can help you schedule the BLS conference rooms. Tami Breske ([tbreske@vetmed.wsu.edu](mailto:tbreske@vetmed.wsu.edu) or 509-335-4318) can assist you in arranging videoconferencing and multi-site presentations.

6. **LinkedIn**  
   As a PSM student and business professional, it is expected that you create and maintain a LinkedIn account. LinkedIn is the world’s largest professional network, and is an excellent resource for networking and communicating with other business professionals. A LinkedIn profile also allows the WSU PSM program to keep in contact with its graduates and track areas of employment they have pursued. Starting a profile only takes a few minutes at: [http://www.linkedin.com/](http://www.linkedin.com/)

7. **NPSMA Membership- First Year Free Student Membership**

   The National Professional Science Master's Association (NPSMA) ([http://www.sciencemasters.com/](http://www.sciencemasters.com/)) is a collaborative group of Professional Science Master's (PSM) degree program directors, faculty, administrators, industry representatives, alumni, and students that supports PSM degree initiatives.

   The NPSMA promotes and supports PSM degree programs at colleges and universities by providing networking opportunities and the exchange of best practice guidelines. The NPSMA assists with the development and expansion of PSM degree programs and promotes student recruitment and enrollment efforts. The NPSMA engages universities, employers, nonprofit organizations, professional associations, and government agencies in an ongoing dialogue to improve the workforce preparedness of PSM graduates and to increase the recognition of the PSM degree.
In addition, the NPSMA serves as the focal point for the collective interaction of the nation's PSM degree programs with organizations that have a stake in graduate education in science, mathematics, and technology. The NPSMA initiates these exchanges by holding workshops and conferences, publishing research findings on PSM degree developments, sharing PSM policy developments, and, most importantly, connecting the various constituents of the PSM.

WSU is a member of the NPSMA with a NPSMA official PSM program. Therefore, membership is FREE for first year students. After the first year, the annual membership fee is $50. For more information, please visit: https://npsma.memberclicks.net/

B. GRADUATE COMMITTEE AND PROGRAM OF STUDY

1. Selection of Graduate Committee Chair (Advisor) and Committee
   During the first semester students should identify one committee member – I know this might be difficult, if you are an online student, because you may have had little contact with the SMB faculty—this is one reason why attendance at the annual SMB retreat in August every year is highly recommended. Students should then add two additional faculty members in the second/third semester of study to complete their graduate committee of three. The sooner you have a committee formed the better as the members can advise you and help with all things related to your degree. One of these members should be identified as the committee chair (advisor).
   Things to think about:
   1. What am I looking for in a committee member?
   2. What sort of internship am I interested in?
   3. Is the advisor approachable, responsive and available?

   A list of potential faculty who can serve as committee members will be made available to you. Ideally you should have some idea of the nature of your internship work, whether it be research or management, before you select your committee members. Remember, your committee will be invaluable to you as you progress throughout your PSM degree. After obtaining faculty consent to serve as committee members, students should complete the Graduate Committee Selection form (APPENDIX C) and email it to the PSM Academic Coordinator at tgreske@vetmed.wsu.edu or fax to (509) 335-1907.

2. Expectations for Committee Meetings
   The student’s graduate committee should meet with the student, at a minimum, once every year or once every semester and at least one time during the semester of graduation to discuss progress in coursework and progress in securing an internship position. It is your responsibility as the student to schedule these meetings. Committee meetings may be conducted in person on the Pullman campus or via video conferencing or telephone. You can obtain assistance with setting up these meetings by contacting the PSM Academic Coordinator at tgreske@vetmed.wsu.edu or fax to (509) 335-1907. Before each meeting, students should prepare a brief progress report describing their coursework progress and efforts to locate an internship position. After each meeting, the chair, in consultation with the committee, will briefly document in writing the outcome of the meeting. Copies of the meeting outcomes will be given to the Graduate Academic Coordinator for inclusion in the student’s file.

3. Submission of Program of Study
Students should submit their Program of Study for the PSM Degree as soon as possible, on forms provided by the Graduate School at http://gradschool.wsu.edu/facultystaff-resources/18-2/. This should be approved and signed by the student’s committee. After approval from the PSM Director, the Program of Study should be submitted to the Graduate School for approval, which can take as long as eight weeks. For PSM students, the Program of Study must be approved by the Graduate School no later than the beginning of the semester proceeding the semester of graduation (beginning of semester before the semester of graduation).

The requirements for graduation are those in effect at the time that the student’s Program of Study is approved. Any subsequent changes in the Program of Study must be approved by the student’s committee, the PSM Director and the Graduate School.

If for any reason the student or faculty member wishes to subsequently alter the graduate committee composition, this process may be initiated by submitting a written request to the Director for the PSM.

4. Internship (MBioS 702 credit)

During the first or second semester, or as soon as possible in the program, it is the responsibility of each student to obtain an internship position (paid or unpaid) and identify an internship mentor in a location/situation that works for him or her. Potential internship locations are listed on the PSM website: http://molecular.biosciences.wsu.edu/graduates/psm/psm_mentors.htm. Securing an internship is ultimately the student’s responsibility. The internship and mentor identified by the student must be approved by the student’s graduate committee before the beginning of the internship. The following are essential components of the internship: an internship proposal, internship log, and final report. The MBioS 702 course space has all the information on the Internship, and students who are not enrolled in MBios 702 can access the information at the Internship link on the SMB-PSM webpage at http://www.smb.wsu.edu/academic-training/graduate-studies/professional-science-master%27s-degree/internship. Students must register for a minimum of 4 credits of MBioS 702 (Internship) credits. These credits can be spread out over different semesters while the student is doing the internship, however, the student must register for 2 credits of MBioS 702 in the semester of graduation (in semester of completing their final examination). Also full-time students: students who are registered for 10 credits / semester must register for 1 credit of MBioS 702 credit. See section D and E for more detailed information.

5. Final Examination

For online students, the final examination can be scheduled physically on the Pullman campus or can be completed via video conference. Students must schedule their final examination with their committee members and give notification (through a scheduling form). This scheduling form should be submitted to Tami Breske (PSM Academic Coordinator), who will gather the necessary signatures and then submit to the Graduate School at least 10 working days before the final examination. In addition, at least 10 days before the examination, students must submit copies of the Internship Proposal Form, Internship Log, and the Internship Report to their committee. The final examination will consist of a 20-25 minute oral presentation summarizing the internship experience, after which the student will field questions from the faculty and committee members. During the examination, the student will be evaluated on his/her knowledge of core concepts in molecular biosciences and in particular how those core concepts are applied in a professional setting. All faculty members may attend the final examination, but only members of the graduate committee and graduate training faculty may vote by secret
ballot, seen only by the Graduate School liaison, who is generally the chair of the student’s committee. If the student or faculty wishes to have a Graduate Mentor Fellow from the Graduate Mentor Academy present during the final examination, he/she may ask for one through the Graduate School. A very brief rationale for the request is usually required. In the event the student does not pass the final examination, he or she may be allowed to re-take the final examination after a lapse of three months. A Graduate Mentor Fellow from the Graduate Mentor Academy will automatically be appointed to attend the repeated final examination.

C. TYPICAL TIMELINE FOR PROFESSIONAL SCIENCE MASTER’S GRADUATE PROGRAM (full-time with a Fall start) (33 total credits)

NOTE: Students who are employed full-time are highly encouraged to considering enrolling in the PSM program as a part-time student, enrolling in a minimum of 2 credits.

- 26 credits (minimum) of graded coursework including 19 credits of 500-level graded coursework.

SUMMER PRIOR TO FIRST YEAR: option of taking any necessary prerequisites or commencing coursework (Note: The program may be completed in three semesters without taking summer classes.)

P = Pullman
O = Online

FIRST YEAR
1. FIRST SEMESTER (FALL)
   Course enrollment (minimum 10 credit hrs- full-time, or minimum of 2 credits – part-time)
   ___Choose at least one committee member before the end of the semester.

   MBioS 501  Cell Biology  3 credits  O
   MBioS 513  General Biochemistry  3 credits  P or O (Fall)
   MBioS 583  Professional Skills Seminar  1 credit  O
   MBioS 702  Internship  1st of 4 credits  O

2. SECOND SEMESTER (SPRING)
   Course enrollment (minimum 10 credit hrs.)
   ___Choose additional graduate committee members – at least three faculty members.
Prepare the Program of Study (form available on the Graduate School website). You need to have this document ready for approval and signing by your committee at the semester meeting. It is recommended that you submit the Program to graduate committee members for review beforehand.

Program of Study should be signed by the graduate committee members at the committee meeting. Students are responsible for delivering the signed document to the Program Director for approval and signature of the Associate Director of Graduate Studies. The Program of Study will then be filed with the Graduate School for final approval.

SECOND YEAR
3. THIRD SEMESTER (FALL)
Course enrollment (minimum 10 credit hrs for full-time*)
Professional Requirement: Ethics Focus 2 credits O
Professional Requirement: Communication Focus 3 credits O
MBioS 702 Internship 1 credit O

Complete any remaining electives to finish coursework. It is recommended that students apply for graduation during the semester before the graduation semester. Apply through The Graduate School at http://www.gradschool.wsu.edu/Forms/ and pay the $50 graduation fee.

Make sure to schedule at least one meeting with your committee before your Final Exam. This meeting may be in person or via video conference using Zoom. If you use video conference, please contact Tami Breske (tbrskewtmed.wsuedu) for assistance with scheduling.

4. FINAL SEMESTER
Course enrollment (minimum of two credits (MBioS 702) required for final ballot meeting*)
Professional Requirement: Management Focus (3 credits) EM 501 or EM 564 or EM 575 O
MBioS 702 Internship (2 credits) O

Complete the graduation application and pay the $50 graduation fee immediately. Apply for graduation through the Graduate School at http://www.gradschool.wsu.edu/Forms/

Send your committee your internship report. Once approved, reserve your ballot/final presentation meeting with your committee.

Schedule the final examination with committee members and through the Graduate School using the Final Examination Scheduling Form. At least ten working days prior to your presentation, submit the signed Scheduling Form to the Graduate School.
*10 credits is considered full-time enrollment. If you wish to reduce your credit load to part-time during your final semester(s), please familiarize yourself with Financial Aid regulations and student health insurance regulations. Both require you enroll in additional credits to maintain eligibility and defer student loans.

**SCIENCE ELECTIVE COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBIOS 514</td>
<td>General Biochemistry II</td>
<td>3</td>
<td>P</td>
</tr>
<tr>
<td>MBIOS 574</td>
<td>Protein Biotechnology</td>
<td>3</td>
<td>P Fall of odd years</td>
</tr>
<tr>
<td>MBIOS 550</td>
<td>Microbial Physiology</td>
<td>3</td>
<td>P</td>
</tr>
<tr>
<td>MBIOS 584</td>
<td>Medical Genetics</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>MBIOS 585</td>
<td>Molecular Biotechniques</td>
<td>2</td>
<td>O</td>
</tr>
<tr>
<td>MBIOS 586</td>
<td>Molecular Biotechniques Lab.</td>
<td>1</td>
<td>O/P Summers in Pullman</td>
</tr>
</tbody>
</table>

Or other electives approved by graduate committee and PSM Director

**PROFESSIONAL ELECTIVE COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MgtOp** 588</td>
<td>Management of Innovation</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>I Bus 380</td>
<td>International Business</td>
<td>3</td>
<td>P or O</td>
</tr>
<tr>
<td>EM 526</td>
<td>Applic. Of Constraints Management</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>EM 560</td>
<td>Integrated Supply Chain Management</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>EM 564</td>
<td>Project Management</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>EM 570</td>
<td>Six Sigma Quality Management</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>EM 595</td>
<td>Program and Facilities Management</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>EM 530</td>
<td>Applications of Constraint</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>EM 595</td>
<td>Program in Facilities Management</td>
<td>3</td>
<td>O</td>
</tr>
<tr>
<td>STAT 512</td>
<td>Analysis of Variance</td>
<td>3</td>
<td>P or O</td>
</tr>
</tbody>
</table>

** offered through COB at higher per credit costs

**D. INTERNSHIP**

Students must identify and participate in an 8 week full-time (40 hours per week) internship, with an identified internship mentor. The internship can be paid or unpaid, and will usually be conducted in a non-academic workplace. The objectives of the internship are to encourage students to integrate elements of the course work into the workplace and to capitalize on the transitional aspects of the PSM program. The internship will include an Internship Proposal (agreement form, proposal, and student’s resume), Internship Log, Internship Final Report, Student Evaluation of Internship Experience, and Internship Mentor Evaluation of Student.

The internship can be done on a part-time or full-time basis, in one semester or spread over several semesters.

Students must enroll in MBioS 702 Master’s Special Problems/Internship for variable credits during the semester(s) they perform the internship. The internship and mentor must be identified by the student and preapproved by the student’s committee by the end of the second semester of study or after completing 20 credits of course work – this is the time frame for full-time students. A detailed timeline for the internship is provided below. The internship
must be a new experience for the student, and if a student wishes to do an internship in a current workplace, the nature of the internship must be completely different from his/her regular responsibilities; for example, the internship could be conducted in a different office or department within the workplace. During the internship, students will be expected to keep a weekly Internship Log to document progress. Finally, to successfully complete the internship, students will write an Internship Report under the guidance of their internship mentor and members of their graduate committee. This report will be written to show that the student met the challenge of: 1) completing an assigned internship, and 2) interpreting and integrating coursework and the internship experience. This report will form the basis of the final master’s examination.

After the final examination please submit a Final copy of the following Internship documents: the Proposal, Internship Log, Final Report, Student Evaluation of Internship Experience, and Internship Mentor Evaluation of Student, in a bound folder for archiving in the SMB office.

**Timeline of Internship:**

- The Internship proposal should be submitted to the graduate committee one month before the internship start date.
- The Internship Proposal should be approved two weeks before the start of the Internship by the graduate committee.
- Internship Log entries should be completed on a weekly basis; an up-to-date log should be available upon request at any time during the internship. The completed log will be a component of the final examination.
- Internship report (final) is due at least 10 working days before the final examination.

1. **Internship Proposal**

The following items must be included in the internship proposal:

   a) Internship Agreement

   b) Proposal

      1. Location: a brief summary of the workplace, including the nature of the work, complete address(es), phone and e-mail address of the internship mentor, and any compensation/reimbursement provided.
      2. Title and Abstract: include a brief summary of your responsibilities.
      3. Timeline: list specific beginning and ending dates, number of work hours/week, and total number of hours you will spend on this internship.
      4. Description: describe in detail what the aims of the internship are, what you will be doing, and how you will be doing it. If your internship is a research project, the background, hypothesis, methodology, and references must be included.
      5. Outcomes: explain what new skills and/or knowledge you hope to acquire during this internship.
      6. Evaluation: how will your mentor evaluate your performance? Identify specific parameters to be assessed.

   c) A resume that was/or may have been written to secure this specific internship.

The completed Internship Proposal documents (items a, b and c above), should be approved by the members of your graduate committee two weeks before the beginning of the internship.
Copies should also be sent to the PSM Academic Coordinator tbreske@vetmed.wsu.edu or fax to (509) 335-1907.

2. Internship Log
The log is a professional record of your internship experience. It will vary in format depending on the internship, and on the requirements of your mentor. The frequency of updating your log may be daily or biweekly (depending on your mentor recommendations); however, a summary of each week’s work is mandatory. The log will be dated and carefully maintained to the specifications of your internship mentor. If you are participating in a research project, you will keep precise notes of your experimental procedures; if your internship involves a design project, computer analysis, library research, or data collection and analysis, you will record your work and maintain your log as determined by the progression of the project, under the supervision of your mentor. The purpose of the log is to show that you are able to carefully record your work in a written format, so that it is reproducible by others. Your graduate committee will review your log, and it will contribute to your final internship grade. To ensure that your log fulfills the expectations of your committee members, please contact them at least once during the internship and discuss the nature of your log with them. THIS IS YOUR RESPONSIBILITY and you can set up this discussion in person, via phone, video or email. Each log entry should be long enough to sufficiently summarize the activities for the day or week (typically 2-3 pages, single-spaced). Be concise, neat and thorough and follow the log format dictated by the specifics of the internship.

If a signed confidentiality agreement is required for your internship, your mentor will contact your graduate committee to verify that you maintained an adequate log.

3. Internship Report
This report will be based on the experience obtained through the internship project. The objectives of the report are to show that: 1) students are able to communicate effectively by writing, 2) students are able to integrate the internship experience with both the science and professional coursework, and 3) students gained valuable workplace experience.

a) Guidelines for the Internship Report:
- The length of the internship report should be no more than 10 single-spaced pages, including figures and tables. The height of the letters must be no smaller than 10 point; Helvetica or Arial 12-point are suggested fonts. References are not included in the page limitations. The format for the report should be according to the following guidelines:
  - Abstract—Briefly (<250 words), what is the overall hypothesis, aim or information that is to be tested or gained from the internship?
  - Introduction with background and significance of the proposed internship. Why is the work important?
  - Design and Methods of completing the Internship
  - Results
  - Conclusions and Future Directions.
  - Personal Internship Experience. The student will also report on their personal internship experience and will include a rating on: a) the internship environment, b) the internship experience, c) internship challenges and
opportunities, and d) relevancy to their PSM course work.

Students are recommended to meet (either in person or via Video Conference) with their committee members at least once after they have completed their internship to discuss the format of their final examination power presentation and final report.

It is suggested that students submit at least one (but more may be expected, depending on your committee) drafts of the Internship Report to their committee members at least 15 working days prior to the examination to solicit feedback and comments. It is also recommended that students schedule a practice of the Final Exam power presentation at this time also (see E below). A final copy of the report must be submitted to committee members at least 10 working days before the scheduled date of the final examination. At the same time, students must submit copies of the Internship Proposal, Internship Log and Student Evaluation of Internship Experience and Mentor Evaluation of Student to all the committee members and to the PSM Academic Coordinator at threske@vetmed.wsu.edu or fax to (509) 335-1907.

4. Internship Mentor Responsibilities

The internship mentor will be expected to provide guidance to ensure that the internship is structured, productive, and meets accountability standards by fulfilling the following:

- Outline an eight week long internship
- Assist the student in writing an internship proposal
- Hold weekly meetings with the student to discuss the internship progress
- Ensure that the student keeps an internship log of weekly activities
- Provide feedback on the internship report

The mentor is expected to provide an evaluation of the student's performance by filling out the Mentor Evaluation of Student form available in PDF format or in the Forms section of the handbook or in MBioS 702 Syllabus. This evaluation may be shared with the student.

E. FINAL EXAMINATION PREPARATION AND STRUCTURE

The final examination will consist of a 20 - 25 min public oral presentation summarizing the internship experience, after which the student will field questions from audience including committee members, other faculty in attendance and members of the public. During the final examination, the student may also be evaluated on his/her knowledge of core concepts in Molecular Biosciences, and in particular how those core concepts are applied in a professional setting. Please also remember that the public presentation part of your final examination may be videotaped, if you consent. These video recordings are then placed on the PSM website (pass word protected) for other PSM student viewing at http://www.smb.wsu.edu/academic-training/graduate-studies/professional-science-master's-degree. After the public presentation, there will be a closed examination period involving the committee, interested faculty members and the student, followed by a ballot. A rubric used in the Final examination is included in the SMB Forms in this handbook.

The steps toward scheduling the Final Examination are as follows:

a. Students must enroll in at least 2 credits of MBioS 702 in the semester of the
final examination.

b. Students must schedule the final examination with their committee members.

c. **It is recommended** that students submit a draft of the final Internship Report to their committee members **at least 15 working days** before the scheduled date of the final examination for comments.

d. Students are expected to complete a “practice” of their power point presentation with their committee members either in person or via Skype. It is the student’s responsibility to arrange this meeting. The PSM Academic Coordinator can help you schedule this.

e. Students are responsible for providing the Mentor Evaluation form to their internship mentor and arranging for the mentor to send a signed copy to the PSM Academic Coordinator **tbriske@vetmed.wsu.edu** or fax to (509) 335-1907. This document will be considered in the final examination.

f. Students must submit the final version of the Internship Report as well as copies of the Internship Proposal and the Internship Log to the committee members and PSM academic coordinator **at least 10 working days** before the scheduled date of the final examination.

g. Students must submit a completed Non-Thesis Final Examination Scheduling Form to the Graduate Program Academic Coordinator. The student should allow enough time to obtain the necessary signatures from his/her committee and the SMB Associate Director of the Graduate Program. The Final Examination Form is due in the Graduate School **at least 10 working days** before the scheduled date of the final examination and is available through the following link: [http://gradschool.wsu.edu/documents/2015/03/non-thesis-final-exam-scheduling.pdf](http://gradschool.wsu.edu/documents/2015/03/non-thesis-final-exam-scheduling.pdf)

**F. FINAL EXAMINATION PREPARATION INFORMATION** (adapted from original document provided by Dr. Ronald W. Brosemer for Seminar Presentation Content and Purpose)

1. **PRESENTATION: Content and Scheduling**
   - Your presentation will be on your internship.
   - Make sure you schedule your presentation when all your graduate committee can be in attendance.

2. **PURPOSE: Training and Knowledge Demonstration**
   - Most information in modern biological science is communicated verbally.
   - Throughout your career, you will be continually evaluated; an important aspect of those evaluations are judgments of your presentations.

3. **Getting Started**
   - **OUTLINE YOUR TALK.** You need to decide what to cover and what extra material you will need to include. Decide which tables and figures to present. Not all data collected during your internship may be relevant to your final talk.
4. Organizing Your Presentation

LOGIC. The basic secret of good organization is to elucidate the logic of the presentation. If there is no apparent logic, the topic is a poor choice.

STRUCTURE. Your presentation should generally have the following (you may change the order to fit your style.)

- Title page: Include the title as well as your name.
- Introduction: Include scientific motivation and relevance; i.e., why should people listen to this talk? Put the work in context of a wider scope of the field. Also, give background information necessary to understand the presentation. This section often requires considerable reading.
- Make sure that even people far from the field come away feeling they have learned something new.
- Continually explain what is being done and why; redundancy is not always bad.

The logic of a project and the implications of the results are more important than a list of all the data. It is an art to present enough critical data in an appropriate form to convince the audience that the project is well done and the data convincing without boring them.

5. Presentation
   a. CLEAR POWERPOINT PRESENTATION

   - Text should be readable from the back of a small auditorium. Perhaps the cardinal sin in slides and overheads is use of fonts that are too small. For medium-sized lecture halls, use at least 24 font. This restricts the amount of material that can be shown in one slide, but that is an advantage. Use only fonts without serifs; they are clearer in slides. It is recommended that you NEVER make the all-too-common statement: "I know you can't read what is on this slide, but I am showing it anyway" (unless, of course, you really do not want the position for which you are applying). If, despite this counsel, you still choose to show such a slide (e.g., nucleic acid or protein sequences), use color to highlight the point you wish to make.

   - Do not put too much on one slide; usually one thought per slide is ideal.

   - Do not use too much text. Key phrases are best. This is one place where complete sentences are likely not warranted.

   - Enlarge figures. Coloring lines on complicated figures sometimes helps. Add a title if the legend in the paper is too long. If you scan figures from papers, retype the relevant information in the legend so that it is large enough to be legible. There is no gain in including the legend if it cannot be read – just one more distraction. When you retype the legend, you will often have to shorten the text, which will likely improve the presentation.
o Redo tables if they contain too much data and/or are difficult to understand. Consider preparing a separate table by combining data from several tables. Say what the data imply.

o Use color to emphasize. Be aware of color compatibilities. Colors can spruce up a presentation, but many color schemes commonly used are a distraction rather than an aid. Be sure to check the compatibility of your colors before you make your presentation. Appearance on a computer screen is not a sufficiently reliable method. If it looks bad on a computer screen, it will look bad on a projection screen. If it looks good on a computer screen, try it on a projection screen and view it from the back of the room before adopting that scheme. Just because something CAN be done does not mean it SHOULD be done. Surprisingly, red is usually not vivid enough to show up well under projection; avoid red.

o Explain any term or technique that might not be understandable to a fair portion of a general molecular biosciences audience. This is especially important for acronyms; I suspect that DNA, RNA and ATP may be the only acronyms needing no expansion. Explanations need not necessarily be detailed; e.g., just saying what the letters in an acronym stand for often is sufficient information. Recall how much supplemental information you needed at the last seminar you attended on a subject you were not acquainted with. The balance between providing too much trivial information and talking over the head of many in the audience is difficult to define; this is one of the major tasks confronting a seminar speaker.

o Do not waste time during your presentation reciting word-by-word what is shown on slides; assume the listeners are literate. You should show only an outline of points on the slides and use your vocal talents to fill in with additional information. Make the points on slides pithy as well as informative. This is not always easy, but if you really understand the material, you should be able to succeed. Besides, using legible fonts limits what you can fit on any one slide. It is realized that you might well need to read from slides as an aid during your first seminar, but wean yourself away from this crutch.

o Use the laser pointer sparingly. Headaches are commonplace when trying to follow a red dot that is constantly zigzagging all over the screen. This becomes especially crucial if you are tense; the craziness of laser-light patterns is directly proportional to nervousness. Do not so clearly advertise the fact that you would rather be somewhere else at that moment.

b. PRACTICE, PRACTICE, PRACTICE. Practice your presentation as many times as you can, alone and before colleagues and family.

o If you are giving your first talk, start about two weeks prior to your scheduled presentation. Become acquainted with difficult pronunciations. Try to practice at least once in the room where you will give your presentation (in front of your fellow students, if possible) to familiarize yourself with the projection equipment, lights and acoustics. The most accessible time for lecture halls or
conference rooms may be evening. Practice will also help you keep within the allotted time.

- You are also expected to do a “practice run” of your power point presentation with your committee members which can be done either in person or via Skype. This will give you the chance to get feedback from your committee members prior to your final exam.
- Be prepared for the unexpected. If something goes wrong, don’t panic (at least don’t do so openly). Stay calm. And be sure not to mumble statements of defense or the injustice of this setback. Remember that the audience is not interested in your problems, but in how you will get back on track so that the seminar can continue and they can (eventually) get home to dinner.

**c. UNDERSTAND THE TOPIC WELL ENOUGH TO BE ABLE TO HANDLE QUESTIONS FROM THE AUDIENCE.** When a question is asked, always (without exception) repeat the question. This allows everyone to hear what has been asked, but it also allows you to rephrase the question so that you can set up your answer.

6. **Despite All Admonitions**

There are certain points that seem to be ignored by too many speakers. The following are the most common themes in my speaker evaluations about improving the quality of the presentation:

- Inadequate flow of the theme throughout the talk. Use of mini-summaries after every subset of data is often an effective method for maintaining the flow.
- Failure to explain terms, especially acronyms.
- Failure to adequately explain project techniques.
- Use of fonts that are too small.
- Use of fonts with serifs.
- Excessive looking away from the camera. (Whether you look away or not, they are still there.)
- Voice trailing off to inaudibility at the end of sentences or thoughts. (I am often guilty of this myself.)
- Use of meaningless conjunctions (such as "OK", "like", "ya know", "well", "uh").
- Exuberant use of the laser pointer.
- Use of "media" and "data" as singular nouns. They have been plural nouns since the time of Romulus and Remus).
- Failure to repeat questions from the audience in your own words.

**G. FINAL EXAMINATION**

The time, title and the place of your oral presentation will be advertised to all SMB faculty and associate members. Please also remember that the presentation part of your final examination may be recorded, upon your consent as stated above. **You are also encouraged to invite your internship mentor, other colleagues and family members as you see fit to your final presentation.** All SMB faculty and associate faculty are invited to attend, but only the
graduate committee members and graduate training faculty members may vote.

- Please follow the instructions below:

<table>
<thead>
<tr>
<th>Online Student Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSM Final Exam Defense Presentation via <a href="http://www.zoom.us">www.zoom.us</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Step</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Step 1</strong></td>
<td>Arrange date/time with committee members and then submit Scheduling Form to PSM Academic Coordinator (Tami Breske, <a href="mailto:tbreske@vetmed.wsu.edu">tbreske@vetmed.wsu.edu</a>) at least 10 WORKING days prior to exam date.</td>
</tr>
<tr>
<td><strong>Step 2</strong></td>
<td>PSM Academic Coordinator will schedule room for committee members to view presentation, obtain signatures and submit Scheduling Form to the Graduate School. In addition coordinator will schedule and email you and other current PSM students a link to attend your final exam session remotely via <a href="http://www.zoom.us">www.zoom.us</a>.</td>
</tr>
<tr>
<td><strong>Step 3</strong></td>
<td>Contact PSM Academic Coordinator to arrange a “technical practice” of your presentation 4-5 days prior to exam. Once practice time is agreed upon, you will be emailed a practice session link on <a href="http://www.zoom.us">www.zoom.us</a> to go to at the arranged practice time. You will need to be at a computer with internet, web camera and microphone in order to complete the practice session. It is strongly recommended that you have most of your Power Point presentation ready so it’s “readability” can be evaluated once it is projected onto a larger screen.</td>
</tr>
<tr>
<td><strong>Step 4</strong></td>
<td>Just prior to your exam time (10-15 minutes) go to the final exam link (emailed to you in Step 2) from a computer in a quiet location with internet, web camera and microphone. You will then be connected to your committee members and any others attending the presentation from a location on WSU campus. There may also be others (ie: PSM students, remote faculty, internship mentor, etc.) who may attend remotely as well.</td>
</tr>
</tbody>
</table>

- After an introduction by the committee chair, you will be muted and the audience with the exception of your committee will be asked to leave the room. At this point the committee members will have a brief discussion, after which the audience will be called back into the room and you will be unmuted.

You will then begin your presentation. Please keep in mind that this is a public presentation. Audience members will ask questions pertaining to the presentation, including related knowledge about molecular biosciences that you covered in your coursework. The public part of the examination will end and your committee members and faculty members who wish will remain. You will then be asked more questions regarding your internship work. A sample rubric used in the Final exam is included in the SMB forms section of this handbook.

- When all questions have been asked, and the examination is over, you will be muted and a vote will be taken. *The final presentation will be evaluated through ballots submitted by committee members to the Graduate School.* The number of votes required for a pass is listed below.

- When the voting is completed you will be unmuted and you will be notified of the outcome of the vote. It is the responsibility of your committee chair to inform the Graduate School of your results.

- In the event that the student fails the final examination, a second and final attempt may be scheduled after a lapse of at least three months upon approval of the Committee.

- In the event that the student fails the final examination, a second and final attempt...
may be scheduled after a lapse of at least three months upon approval of the Committee.

<table>
<thead>
<tr>
<th>Number of Examiners</th>
<th>Votes Needed to Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>4</td>
<td>3</td>
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<td>5</td>
<td>4</td>
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<td>5</td>
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<tr>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>

- After your final examination please submit a Final copy of the following Internship documents: the Proposal, Internship Log, Final Report, Student Evaluation of Internship Experience, and Internship Mentor Evaluation of Student, in a bound folder for archiving in the SMB office.

H. STUDENT CONDUCT AND ACADEMIC INTEGRITY

1. Student Conduct
   SMB adheres to the Student Conduct Policy of Washington State University. It is your responsibility to visit the websites listed at www.conduct.wsu.edu concerning WSU policies on student conduct, read the pertinent documents and follow the rules and policies of WSU.

2. Academic Integrity
   SMB supports the Academic Integrity Policy of the Washington State University. It is your responsibility to visit the websites listed below concerning WSU’s policy on academic integrity, read the pertinent documents and follow the rules and policies of the University. http://www.conduct.wsu.edu/default.asp?PageID=343 (Academic Dishonesty) http://www.wsulibs.wsu.edu/plagiarism/main.html (Plagiarism)

   WSU policy (WAC 504-26-010) states, “Academic dishonesty, such as cheating, plagiarism, fabrication and fraud is prohibited. Plagiarism is defined as the unauthorized use of the language of thoughts of another person, and the representation of them as one’s own. (Random House Webster’s College Dictionary, 1991).

   It is the student’s responsibility to learn proper citation conventions for proposals and journal articles. All students must review the appropriate WSU documents, attend an SMB workshop on student conduct, academic integrity, and plagiarism then sign an affidavit acknowledging his/her understanding of these documents. A copy of the affidavit is included in this handbook.

3. SMB Standard Operating Procedure for a Violation
   A letter stating the nature of the academic violation, along with all appropriate documentation, will be brought to the attention of the SMB Associate Director of Graduate Studies. The Associate Director and members of the PSM Admissions Committee will serve as third-party reviewers of the case, and a simple majority vote will determine the outcome.
The letter should be written by the individual/faculty member who was involved in the academic violation, however only the SMB Associate Director and members of the PSM Admissions Committee, are allowed to vote on the outcome. No peer review will be involved. The school will keep a record of the academic violation in a separate file with all recorded cases in SMB. The recommended outcomes for violations of the SMB or WSU Academic Integrity Policies include:

The outcome can be an “F” for the assignment/exam or for the entire course, as well as a recommendation to the faculty for the termination of the student and/or a report to the Graduate School for a review by the WSU committee handling academic integrity violations.

When the student is informed of PSM Admissions Committee decision, he/she will also be told about the SMB Ombudsman and the WSU appeals process, as noted in the WSU websites cited above.

I. ACADEMIC REGULATIONS, PROCEDURES, AND RESPONSIBILITIES

1. Definition of Good Standing for SMB graduate students
   For satisfactory academic performance, a graduate student must have a cumulative GPA equal to or greater than 3.0.

2. Earned Credits and GPA calculation
   a. If a student earns a grade of “C-” or below in a course listed in his/her Program of Study, he/she must repeat the course for graded credit, not as Pass/Fail credit.

   b. All grades, except for the first grade in a repeated course, are averaged to calculate the student’s cumulative GPA.

   c. It is a requirement of the Graduate School that students may not carry a grade of “I” (incomplete) longer than one semester or summer session while on a teaching or research assistantship. After one year the “I” will be converted to an “F” grade on your transcript.

   d. A student may petition to the Graduate School to withdraw from a course if the Registrar’s deadline has passed by filling out the Graduate Student Petition form with the approval of the instructor and the Associate Director of Graduate Studies.

3. Continuous Enrollment Policy and Transfer of Graduate Credits
   a. SMB will follow the Continuous Enrollment Policy of the Graduate School. All full and part-time degree-seeking graduate students must maintain continuous enrollment in the Graduate School, enrollment until all requirements for the degree are completed. Exceptions are made for periods during which the student is on official graduate leave or emergency medical or family leave.

   b. SMB will follow the policy of the Graduate School regarding transfer of graduate credits.
c. If credits have been earned after the completion of a bachelor’s degree from an accredited graduate school (with a grade of B or higher) and are considered appropriate to the student’s program of study, the credits may be transferred and applied toward a WSU graduate degree. Credits for research and thesis problems, workshops, seminars, laboratory instruction and correspondence courses are not approved for transfer as graduate credits. SMB does not allow transfer courses to substitute for the core courses (MBioS 501, 503, 513 and 578) except under extraordinary circumstances.

d. Graduate students with a bachelor’s degree from WSU can apply up to 6 graduate credit hours (500 level with a grade of B or higher) toward a graduate degree, as long as the courses were not used to fulfill their bachelor’s degree requirements. Approval from the Graduate School to use the credit hours towards a graduate degree must be obtained when the student registers for the course, not afterward.

e. For a master’s degree, the number of credit hours that can be transferred is limited to half of the total, required graded course credits.

f. Transfer of graduate credit is requested formally by listing the courses on the student’s program of study. However, preliminary determination of acceptable credits for transfer can be made earlier by request to the Graduate School, through the Director of the PSM.

4. Reinstatement, Termination, Re-enrollment

a. SMB will follow the termination and reinstatement policies of the Graduate School.

b. A graduate student with a cumulative GPA between 2.75 and 3.0 after one semester of coursework will be reinstated automatically, unless the student was admitted as a probationary admit. After the first semester, reinstatement is not automatic.

c. A graduate student with a cumulative GPA below 2.75 after one semester of coursework will receive a letter from the Graduate School that he/she will be terminated. The PSM director with approval from the Associate Director of Graduate Studies, a may submit a letter to the Dean of the Graduate School requesting reinstatement of the student. The student must provide a reasonable plan for improvement of his/her academic performance.

d. If the student’s cumulative GPA increases to about 2.75 but below 3.0 after two semesters of instruction the PSM director with approval from the Associate Director of Graduate Studies, a may submit a letter to the Dean of the Graduate School requesting reinstatement of the student.

e. If the student’s GPA is below 2.75 after two semester of instruction, the student is not eligible for reinstatement and will be terminated for unsatisfactory academic performance.

f. A graduate student who has been dismissed for unsatisfactory academic performance may request to be re-enrolled if improved academic performance
can be demonstrated. The request will be evaluated by the Director of the PSM Program the Associate Director of Graduate Studies. If the request is deemed acceptable, the PSM director with approval from the Associate Director of Graduate Studies, may submit a letter to the Graduate School requesting reenrollment.

5. Exceptions to Policy and Procedure
   a. Requests for an exception to policy for a student should be submitted in writing to the Director of the PSM by the student’s graduate committee chair.

   b. The written requests for exception will be forwarded to the Associate Director of Graduate Studies for approval. The Associate Director must approve any request for an exception to policy, especially for a student without a committee.

   c. If the request is approved, the Associate Director will write a letter to the Dean of the Graduate School requesting an exception to policy. According to the Graduate School policy, the Dean may then act upon the request or refer it to the WSU Graduate Studies Committee for a decision.

6. Graduate School’s Graduate Students Rights and Responsibilities and WSU Executive Policy on Consensual Relationships

   Policy on Faculty-Student and Supervisor-Subordinate Relationships:  
   http://chr.wsu.edu/media/352866/EP28%5B1%5D.pdf

   Graduate Student Rights and Responsibilities:  

7. Annual Review

   Students will participate in an annual review either via phone, video or in person with the Director of the PSM program and other faculty members in the Spring of every year. This review is mandatory and a copy of the annual review form will be maintained in the student’s folder in the SMB office. This annual review will be a time to access progress and discuss any obstacles that students may have encountered. A record of the discussion and recommendations from the Director will be recorded on the annual review form and a signed copy will be sent to each student for their records. Please see a copy of the Annual Review form included in SMB forms section of this handbook.

J. SCHOOL OF MOLECULAR BIOSCIENCES OMBUDSMAN

   You should contact the Ombudsman if you have a problem or conflict related to the School of Molecular Biosciences or WSU that is beyond your ability to resolve with resources such as your committee chair, committee members or the PSM Director. The Ombudsman will serve as a neutral and confidential listener, and will help to mediate a resolution to problems or provide information about further steps that can be taken. The Ombudsman is also a confidential resource for information concerning the university and school rules, policies, and procedures.
The SMB Ombudsman is Dr. Terry Hassold, Biotechnology/Life Sciences, terryhassold@vetmed.wsu.edu at (509) 335-4953
## APPENDIX A
### SCHOOL OF MOLECULAR BIOSCIENCES
#### Professional Science Master’s Degree

**Student Name:** Click here to enter name  
**WSU ID#:** Click here to enter ID#

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDITS</th>
<th>TERM</th>
<th>GRADE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCIENCE REQUIRED COURSES</strong> – Complete the following 4 courses</td>
<td></td>
<td></td>
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<tr>
<td>☐ MBIOS 501 Cell Biology</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>☐ MBIOS 503 Molecular Biology I</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>☐ MBIOS 513 General Biochemistry</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>☐ MBIOS 578 Bioinformatics</td>
<td>3</td>
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<tr>
<td><strong>PROFESSIONAL REQUIRED COURSES</strong> – One course from each of the following five professional areas</td>
<td></td>
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<tr>
<td>1. ETHICS</td>
<td></td>
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</tr>
<tr>
<td>☐ PHIL 530 Bioethics</td>
<td>2</td>
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<td></td>
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<tr>
<td>☐ PHIL 532 Seminar in Business Ethics</td>
<td>3</td>
<td></td>
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<tr>
<td>☐ PHIL 535 Advanced Biomedical Ethics</td>
<td>3</td>
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<tr>
<td>2. COMMUNICATION</td>
<td></td>
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<tr>
<td>☐ MBIOS 580 Science Information Literacy</td>
<td>2</td>
<td></td>
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<tr>
<td>☐ ENGL 595 Communicating in STEM</td>
<td>3</td>
<td></td>
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<tr>
<td>☐ ENGL 495 Rhetoric of Science and Technology</td>
<td>3</td>
<td></td>
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<tr>
<td>3. BUSINESS FOCUS</td>
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<tr>
<td>☐ ENTRP 486 Topics in New Venture Bus. Planning</td>
<td>3</td>
<td></td>
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<tr>
<td>☐ EM 508 Legal Concepts for Eng &amp; Tech Mgmt.</td>
<td>3</td>
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<tr>
<td>☐ MKTG 506 Marketing Management &amp; Admin. Policy</td>
<td>3</td>
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<tr>
<td>☐ EM 505 Finance for Technical Systems</td>
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<tr>
<td>4. MANAGEMENT</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>☐ EM 501 Management of Organizations</td>
<td>3</td>
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<tr>
<td>☐ EM 564 Project Management</td>
<td>3</td>
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<tr>
<td>☐ EM 575 Performance Management in Technical Org.</td>
<td>3</td>
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<tr>
<td>☐ EM 522 Supervision and Leadership for Engineering/Tech</td>
<td>3</td>
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<tr>
<td>5. SKILLS SEMINAR</td>
<td></td>
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<tr>
<td>☐ MBIOS 583 Professional Skills Seminar</td>
<td>1</td>
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<tr>
<td><strong>ELECTIVES</strong> – Take two courses with at least one from the science and one from the professional group</td>
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<tr>
<td><strong>SCIENCE COURSE ELECTIVES</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>☐ MBIOS 514 General Biochemistry (Prereq 513)</td>
<td>3</td>
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<tr>
<td>☐ MBIOS 550 Microbial Physiology</td>
<td>3</td>
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<tr>
<td>☐ MBIOS 574 Protein Biotechnology (Prereq 513)</td>
<td>3</td>
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<tr>
<td>☐ MBIOS 584 Medical Genetics</td>
<td>3</td>
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<tr>
<td>☐ MBIOS 585 Molecular Biotechniques</td>
<td>2</td>
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<td></td>
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<tr>
<td>☐ MBIOS 586 Molecular Biotechniques Lab</td>
<td>1</td>
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<tr>
<td><strong>PROFESSIONAL COURSE ELECTIVES</strong></td>
<td></td>
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<tr>
<td>☐ STATS 512 Analysis of Variance of Des. Exp.</td>
<td>3</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>☐ MgtOp 588 Management of Innovation</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I BUS 380 International Business</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ EM 526 Constraints Management</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>☐ EM 560 Integrated Supply Chain Management</td>
<td>3</td>
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<tr>
<td>☐ EM 570 Six Sigma Quality Management</td>
<td>3</td>
<td></td>
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<tr>
<td>☐ EM 595 Program in Facilities Management</td>
<td>3</td>
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</tr>
<tr>
<td><strong>INTERNSHIP</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>MBIOS 702 Master’s Special Problems</td>
<td>Min of 4 credits</td>
<td></td>
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<tr>
<td><strong>NOTES:</strong></td>
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</tbody>
</table>

**ADDITIONAL REQUIREMENTS:**

☐ Select and meet with Committee Members  
☐ Program of Study Completed  
☐ Internship Proposal Completed  
☐ Internship Log  
☐ Internship Report  
☐ Apply for graduation and pay graduation fee  
☐ Schedule Final Presentation with Committee  
☐ Final Examination ballot meeting and presentation and to committee  

*Updated October 2014*
APPENDIX B
SCHOOL OF MOLECULAR BIOSCIENCES
STUDENT CONDUCT AND ACADEMIC INTEGRITY CONTRACT

Please read and initial each statement on the line provided. This document that you have signed will be kept in your file.

1. Student Conduct

SMB supports the Student Conduct Policy of the University. Websites concerning WSU core values and student conduct are: www.conduct.wsu.edu/

I have read the documents from these websites and I understand their content. Furthermore, I agree to abide by the standards of conduct detailed in these documents.

2. Academic integrity

WSU policy (WAC 504-26-010) states, “Academic dishonesty, such as cheating, plagiarism, fabrication, and fraud, is prohibited.”

SMB supports the Academic Integrity Policy of the University. Websites concerning WSU Academic Integrity are (visit for more information): http://www.conduct.wsu.edu/default.asp?PageID=343 (Academic Dishonesty) http://www.wsulibs.wsu.edu/plagiarism/main.html (Plagiarism)

I have read the documents from these websites and I understand their content. Furthermore, I agree to abide by the policies of academic integrity detailed in these documents.

3. Plagiarism

Plagiarism is defined as the unauthorized use of the language or thoughts of another person, and the representation of them as one’s own. (Random House Webster’s College Dictionary, 1991)

I have read and understand this definition.

I understand that it is my responsibility to learn proper citation conventions (rules) for all my class papers, proposals, dissertation, and any scientific journal articles I may write.

I understand that inclusion of the words of others in a paper or manuscript without proper citation is plagiarism. I understand that inclusion of extensive sections of text, copied verbatim from a source, is also inappropriate.

I understand that falsifying sources is also considered cheating and will result in the same consequences as any other form of plagiarism.

I understand that I may be asked to provide photocopies or originals of any sources I use, including downloads from the Internet, which should include the URL.

I understand the SMB standard operating procedure for any academic violation. Any plagiarism on my part may result in an “F” in the course, and/or notification of the Dean of the Graduate School. I also understand that it may result in dismissal from the SMB graduate program.

4. Summary Statement

I have read and understand the above contract, as indicated by my initials after each paragraph, and agree to abide by the rules and policies of the School of Molecular Biosciences and the Washington State University.

Printed Name: ____________________________________________________________

Signature: ____________________________ Date: ____________________________

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# APPENDIX C

**Professional Science Master’s Degree (PSM)**  
**School of Molecular Biosciences**  
**Student Committee Selection Form**

<table>
<thead>
<tr>
<th>Student Name:</th>
<th>Click here to enter text.</th>
<th>Today’s Date:</th>
<th>Click here to enter text.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program start date:</td>
<td>Click here to enter text.</td>
<td>Program start date:</td>
<td>Click here to enter text.</td>
</tr>
<tr>
<td>Proposed program end date:</td>
<td>Click here to enter text.</td>
<td>Proposed program end date:</td>
<td>Click here to enter text.</td>
</tr>
<tr>
<td>Briefly describe the goal of your proposed internship:</td>
<td>Click here to enter text.</td>
<td>Briefly describe the goal of your proposed internship:</td>
<td>Click here to enter text.</td>
</tr>
</tbody>
</table>

Please list your three committee members (see PSM webpage)  
[http://molecular.biosciences.wsu.edu/academic-training/graduate-studies/professional-science-master%27s-degree/graduate-committee](http://molecular.biosciences.wsu.edu/academic-training/graduate-studies/professional-science-master%27s-degree/graduate-committee)

| 1. (Chair) | Click here to enter text. | *Signature: ____________________________ |
| 2. | Click here to enter text. | *Signature: ____________________________ |
| 3. | Click here to enter text. | *Signature: ____________________________ |

**Instructions:**  
*Return this form to the PSM Academic Coordinator at tbreske@vetmed.wsu.edu or fax (509)335-1907 who will then obtain signatures of committee members.*

*It is recommended that you keep copies of your submitted forms.*
INTERNSHIP AGREEMENT

This agreement must be completed and submitted as part of the internship proposal to members of your committee and to the PSM Academic Coordinator tbriske@vetmed.wsu.edu two weeks before the beginning of the internship.

Internship Course No: **MBioS 702**  Credits to be earned:

__________________________________________________________________________

FOR STUDENT

Name: ________________________________________ WSU ID#: ________________

Phone: ___________________ Email: ___________________________________

Degree: _____________________________

Describe your learning goals during this internship:

__________________________________________________________________________

__________________________________________________________________________

FOR INTERNSHIP MENTOR

Internship Site: __________________________________________________________

Internship Site Address: _______________________________________________________________

Mentor Name: _____________________________________________________________

Street  City  State  Zip Code

Title: ____________________________________________________________

Phone: ___________________ Email: ___________________________________

Starting date: _________________ Completion date: ______________________

Internship location/dept.: _______________ Hours per week on internship: __________

Student’s wage: ___________________________________________________________

Other compensation: _______________________________________________________

Describe the intern’s responsibilities (or attach job description):

**Student Intern**: I accept the responsibilities as stated on this agreement. I agree to complete all internship assignments promptly and to the best of my ability. I agree to familiarize myself with and adhere to the relevant organizational policies, procedures, functions, and standards of ethical conduct.

Student: ____________________________ Date: __________________

**Mentor**: I have discussed the internship and this agreement with the student. I agree to provide the intern with an orientation concerning organizational policies, procedures, and functions, and meet regularly with the intern. I agree to conduct an evaluation of the student.

Mentor: ____________________________ Date: __________________

__________________________________________________________________________

APPENDIX E
This evaluation is requested so that we can monitor PSM internship locations. Evaluation should be submitted to the PSM Academic Coordinator at tbreske@vetmed.wsu.edu.

<table>
<thead>
<tr>
<th>Student’s Name:</th>
<th>Degree:</th>
<th>Term/Year:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click here to enter text.</td>
<td>Click here to enter text.</td>
<td>Click here to enter text.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Internship Site:</th>
<th>Mentor Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click here to enter text.</td>
<td>Click here to enter text.</td>
</tr>
</tbody>
</table>

A. Did you accomplish the learning goals that you established in the Learning Agreement?

Click here to enter text.

B. In your opinion, how well did your mentor (and other co-workers) interact with you on the following scales?

<table>
<thead>
<tr>
<th></th>
<th>POOR 1</th>
<th>MARGINAL 2</th>
<th>AVERAGE 3</th>
<th>GOOD 4</th>
<th>EXCELLENT 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Interpersonal Relations:</td>
<td>Not well accepted</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>2. Adequate directions:</td>
<td>Slow</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>3. Training opportunities:</td>
<td>Very few</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>4. Expected tasks Vs. actual assignments:</td>
<td>Expectations were unfulfilled</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>5. Amount of supervision:</td>
<td>Little contact</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

C. Please evaluate yourself as to how well you were able to learn and integrate the following skills:

<table>
<thead>
<tr>
<th></th>
<th>POOR 1</th>
<th>MARGINAL 2</th>
<th>AVERAGE 3</th>
<th>GOOD 4</th>
<th>EXCELLENT 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Interpersonal Relations:</td>
<td>Not well accepted</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>2. Adequate directions:</td>
<td>Slow</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>3. Training opportunities:</td>
<td>Very few</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>4. Expected tasks Vs. actual assignments:</td>
<td>Expectations were unfulfilled</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>5. Amount of supervision:</td>
<td>Little contact</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>6. Overall satisfaction with the experience</td>
<td>Unsatisfactory</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>7. Kept agreements</td>
<td>Slow</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>8. Judgments:</td>
<td>Poor</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>9. Dependability:</td>
<td>Careless</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>10. Learning ability:</td>
<td>Slow</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
11. Quality of work: Poor ☐ ☐ ☐ ☐ ☐ ☐ Excellent
12. Punctuality: Irregular ☐ ☐ ☐ ☐ ☐ ☐ Regular
13. Ability to teach others: Poor ☐ ☐ ☐ ☐ ☐ ☐ Excellent
14. Overall Performance: Poor ☐ ☐ ☐ ☐ ☐ ☐ Excellent

D. In your opinion, how did your internship rate in the following areas?

<table>
<thead>
<tr>
<th></th>
<th>POOR 1</th>
<th>MARGINAL 2</th>
<th>AVERAGE 3</th>
<th>GOOD 4</th>
<th>EXCELLENT 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The internship was</td>
<td>Not related</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>appropriate for your career</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>interests</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>2. You felt academically</td>
<td>Not prepared</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>prepared for your placement</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

E. What specific educational or extra-curricular experiences helped prepare you for the internship?

Click here to enter text.

F. What specific educational experiences do you wish you would have had prior to your internship?

Click here to enter text.

G. Check all of the following that you received as a direct result of your internship:

- ☐ Professional contacts in your career field
- ☐ A job or internship offer with the same employer
- ☐ Mentoring relationships
- ☐ Letter(s) of recommendation or name(s) for your reference list

H. What was the most valuable thing you gained from this internship?

Click here to enter text.

I. What advice would you give future interns?

Click here to enter text.

APPENDIX F
SCHOOL OF MOLECULAR BIOSCIENCES
MENTOR EVALUATION OF
STUDENT

Please return evaluation to the PSM Academic Coordinator at tbreske@vetmed.wsu.edu.
Feel free to attach additional pages.

Student’s Name:_____________ Internship Site: ____________Mentor’s Name: ______
Phone: ______________________________________ Email: _______________________

1. Please evaluate the student on the following scales in comparison to other similarly
assigned students or personnel, OR with respect to achievement of objectives.

<table>
<thead>
<tr>
<th></th>
<th>POOR</th>
<th>MARGINAL</th>
<th>AVERAGE</th>
<th>GOOD</th>
<th>EXCELLENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Interpersonal relations</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>B. Kept agreements</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>C. Judgment</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>D. Dependability</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>E. Learning ability</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>F. Quality of Work</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>G. Punctuality</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>H. Ability to teach</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>I. Overall</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

2. Briefly relate this student’s strong and/or weak work habits.

3. Would you recommend that this student pursues a career related to this experience, and
if so, what additional recommendations would you make to better prepare the student for
such a career?

4. What special problems affected this student’s performance of objectives, such as
inappropriate timing of the experience, deficiencies in the student’s training, interaction
with co-workers, etc.?

5. Has this evaluation been discussed with the student? Yes_______No_
PROFESSIONAL SCIENCES MASTER’S  
Molecular Biosciences (PSM-MB)  
Director’s Annual Review Form 2015-2016

The annual review of PSM-MB students by the Director of the PSM program evaluates different facets of academic progress including coursework, internship and graduate committee formation. The evaluation period for the annual review is usually from May to April. The purpose of this form is to provide a tool for a student’s self-evaluation as well as evaluation of the student by the Director of the PSM program and evaluation of the program by the student.

Please complete Sections A and B, and then save and email to the PSM Academic Coordinator at tbreske@vetmed.wsu.edu at least 5 working days prior to your scheduled review date. The review can take place in person or via video or teleconferencing (ie: Zoom).

SECTION A – Completed by STUDENT prior to review

<table>
<thead>
<tr>
<th>STUDENT NAME:</th>
<th>Click here to enter text.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please select your meeting preference:</td>
<td>☐ Phone ☐ Skype ☐ In Person</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>Click here to enter text.</td>
</tr>
<tr>
<td>Skype Name: <em>(if applicable)</em></td>
<td>Click here to enter text.</td>
</tr>
<tr>
<td>Email address:</td>
<td>Click here to enter text.</td>
</tr>
<tr>
<td>Current Workplace:</td>
<td>Click here to enter text.</td>
</tr>
</tbody>
</table>

Progress toward Degree

| Start Date in Program: | Click here to enter text. |
| Cumulative GPA: *(WSU Graduate School)* | Click here to enter text. |

Please indicate your campus location: ☐ On-line ☐ Pullman Campus

Please indicate your student status: ☐ Part-time ☐ Full-time

Status of Internship:

Including:
  **Proposal**
  **Final Report**
  **Log**
  **Any difficulties**

Status of Formation of Committee: (Include committee member names if selected)

Any difficulties? Click here to enter text.

Have you filed your Program of Study? ☐ Yes ☐ No ☐ In Process

If yes, date approved: Click here to enter text.

Anticipated degree completion date: Click here to enter text.
SECTION B – Completed by STUDENT prior to review

Summary of Progress since last Director’s review:

1. Courses enrolled in past year with grades (if known):  
   Click here to enter text.

2. Any obstacles that you have experienced in your courses or the program:  
   Click here to enter text.

3. PSM resources used:  
   (Indicate any used)  
   - ☐ NPSMA website  
   - ☐ SMB-PSM website  
   - ☐ PSM Handbook  
   - ☐ Annual SMB Retreat  
   - ☐ Facebook  
   - ☐ LinkedIn  
   - ☐ Other:  Click here to enter text.

4. How do you want to use the training in the PSM in your current/future career?  
   Click here to enter text.

SECTION C – Completed by Director of PSM and Student during review:

1. Student’s comments about courses: What worked, what did not?  
   Click here to enter text.

2. Student’s comments about forming a committee:  
   Click here to enter text.

3. Student’s comments about finding an Internship:  
   Click here to enter text.

4. Students comments about the program – how can it be improved?  
   Click here to enter text.

5. Specific expectations that must be fulfilled prior to next review.  
   Click here to enter text.

SECTION D – Completed by Director of PSM and Student during review:

- Are you planning on attending the annual SMB retreat scheduled in Pullman/Moscow on ________?  
  - ☐ Yes  
  - ☐ No  
  - ☐ Unsure

- Overall assessment of program progress towards degree:  
  - ☐ Excellent  
  - ☐ Satisfactory  
  - ☐ Needs Improvement

__________________________________                      ______________________________________  
PSM Director (Print Name)  
Director of PSM signature and date
APPENDIX H

EVALUATION RUBRIC for the Final Exam for PSM Students:

PSM Candidate: ________________________________

Committee Member: ________________________________

<table>
<thead>
<tr>
<th></th>
<th>Poor</th>
<th>Fair</th>
<th>Competent</th>
<th>Good</th>
<th>Excellent</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrates mastery of general knowledge in the</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>field of molecular bioscience sciences</td>
<td></td>
<td></td>
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<tr>
<td>Demonstrates mastery of the relevant literature</td>
<td></td>
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<tr>
<td>associated with the internship topic.</td>
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<tr>
<td>States clearly the relevancy of the internship</td>
<td></td>
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<tr>
<td>focus within the goals and context of the (workplace)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>internship location.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Provides a detailed outline of the methods/procedures</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>used to conduct the internship work, and shows a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>deep understanding of the use of such methods/</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>procedures.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Demonstrates capability for independent thought on</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>the conclusions from the internship work, and can</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>appreciate critically the successes and</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>shortcomings of the work.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Can communicate the internship work clearly and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>professionally in both written and oral forms.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Demonstrates the ability to discuss and apply</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>expertise in the area of the internship topic and</td>
<td></td>
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<tr>
<td>to make original contributions for future work in</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>the area.</td>
<td></td>
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</tr>
</tbody>
</table>

Comments
APPENDIX I

School of Molecular Biosciences
PSM
Final Defense Presentation
Permission to Record

I, __________________________________________________________

(Please print your name)

_____ Grant Permission  _____ Do Not Grant Permission

to the School of Molecular Biosciences, College of Veterinary Medicine, Washington State University, to record my PSM Final Exam Defense Presentation and make available on the PSM website(s) to currently enrolled WSU students and SMB staff to view. I fully understand that if permission is granted, access to this recording will be password protected.

I also fully understand that if I no longer want to have this recording available on the PSM website, I will notify the PSM Director or Academic Coordinator of my wish to have it removed from the website in writing.

In consideration for granting the aforementioned permission, I understand that I am to receive no monetary remuneration for any appearance and/or presentation(s).

Signed:_______________________________________________ Date:___________________

Phone: ___________________________ Email:____________________________
Relevant Graduate School Policies

Obtained from:
http://www.gradschool.wsu.edu/CurrentStudents/PoliciesAndProcedures/TableOfContents.aspx

Admission

The Graduate School is responsible for official admission decisions regarding all graduate students at WSU. The Dean of the Graduate School makes these decisions with the input and advice from appropriate Graduate School staff, graduate programs, departments, and colleges. Any correspondence sent by the department/program to the prospective student should be copied to the Graduate School so that it may be included in the student’s official file. Departments and/or degree granting units and the Graduate School have the right to deny admission to any student, regardless of whether they meet the minimum admission requirements, and are not required to provide a reason for denial.

General Policies

1. Inquiries

The Graduate School staff responds to all inquiries and forwards information to the appropriate degree granting unit (department, school, and college).

2. Application Process

The Graduate School uses an on-line application and payment system. Paper applications and checks are generally not accepted. Prospective students must complete the on-line application for admission to the Graduate School. In order for applications to be considered, all required sections must be completed.

Each application for admission is subject to an application fee, which is required at the time of application. This fee is not refundable and may not be credited against any other fees charged by Washington State University. Application fee waivers are granted on a limited basis at the discretion of the Graduate School. For the online application, WSU only accepts Visa and MasterCard credit cards or online Pay by Check through U.S. bank accounts. Checks sent by mail are not accepted.

3. Priority Deadlines

Applications and supporting documents should be submitted as soon as possible to the Graduate School, but no later than January 10th for fall admission, and July 1st for spring admission. Students whose applications are not complete by these priority deadlines will be considered for admission upon request of the department or program. Departments may have earlier deadlines; applicants are responsible for checking with the relevant departments or programs to verify deadlines.

4. Application Requirements
Application requirements and procedures for meeting those requirements are listed on the Graduate School’s website. Departments or programs may have additional requirements, such as GRE or GMAT scores; statements of professional interest; or supplemental applications. Students are responsible for checking with the specific program or department to which they are applying for additional application requirements.

5. Transcript Requirements

Official transcripts are those mailed directly to the Graduate School from the registrar of the institutions attended; transcripts not sent directly from the registrar are not acceptable. The Graduate School will also accept electronic transcripts from U.S. institutions via the official electronic transcript process of the registrar's office of the institution. One set of official transcripts is required. All transcripts sent to the Graduate School as part of the application process become part of the Graduate School's official application file and cannot be returned or transferred. Departments and Programs are free to request additional transcripts as deemed appropriate. The following transcripts are required for admission to the Graduate School at Washington State University.

Applicants who attended school in the United States or Canada must submit:

- Transcripts from all accredited colleges or universities attended for any undergraduate coursework (including undergraduate coursework taken after the bachelor’s degree);
- Transcripts from the accredited colleges or universities from which any bachelor’s degrees and/or graduate degrees have been granted or are expected;
- Transcripts from the accredited colleges or universities showing any graded graduate level (including doctoral) course work taken after the bachelor’s degree.

Applicants who attended school outside the United States or Canada must submit:

- All official transcripts, mark sheets, grade reports, examination results, and degree certificates from all higher education institutions attended. (NOTE: Official credentials must be received in an envelope sealed by the institution attended.)

The applicant may be required to order a course-by-course evaluation report of their foreign credentials, including copies of official transcripts, from the WSU-approved Credential Evaluation Service (see the WSU Graduate School Apply website for specific information). When using a credential evaluation service, applicants must have all official transcripts, mark sheets, grade reports, examination results, and degree certificates from all higher education institutions attended sent directly to the service. (Note: English translations will be required by the Credential Evaluation Service; please check the WSU Graduate School website for contact information.) The Credential Evaluation Service will make a determination on whether or not the applicant’s degree is equivalent to a U.S. bachelor’s degree. The final decision about the equivalency of any bachelor’s degree rests with the Dean of the Graduate School. The Graduate School reserves the right to determine whether a credential evaluation report is needed, or whether the applicant may have his/her official transcripts and degree documents sent directly to the Graduate School from the institution attended.

6. Transfer Credits
Students intending to request transfer credit for their Program of Study will need to submit official transcripts from colleges or universities showing such credit. See Chapter 6, Section G, Program of Study.

7. General Admission Criteria

Applicants who have submitted complete application materials are considered for admission on the basis of the following:

Coursework Requirements

- A cumulative grade point average of 3.0 (based on a 4.0 system) of graded undergraduate coursework, or a cumulative grade point average of 3.0 (based on a 4.0 system) from graded graduate coursework where there is 12 or more semester hours of graded graduate coursework taken after the bachelor’s degree. (Note: International transcript evaluation to determine a 3.0 GPA will depend on transcript format.)
- At the minimum, applicants must have or anticipate receiving a bachelor’s degree from an accredited school before the start of the semester for which they have applied to graduate school.
- Schools must be accredited by a recognized accreditation association.
- Credits earned in a professional degree program (such as DVM, JD, MD or PharmD) are not considered as graduate credits in the admission decision.
- The Dean of the Graduate School is the final authority in determining what constitutes accredited courses or schools, and in determining exceptions to this policy.

English Proficiency Requirements

All international applicants must demonstrate a basic proficiency in English by submitting official Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS), or Michigan English Language Assessment Battery (MELAB) test scores. Applicants from Australia, Bahamas, Barbados, Botswana, Canada, Guyana, Kenya, United Kingdom, Republic of Ireland, Jamaica, New Zealand, Nigeria, and Trinidad and Tobago are exempt from the English proficiency requirement.

The date of scores must be within two years of expected semester of enrollment and sent directly to the Graduate School from the Educational Testing Service. International students who have or will have graduated with a baccalaureate or higher degree from an accredited four-year U.S. or Canadian college or university within two years of the expected semester of enrollment at the WSU Graduate School are not required to submit TOEFL scores. Student copies of scores, or photocopies, are not official and will not be used in the admission evaluation process.

The ETS institutional code for WSU and the minimum acceptable TOEFL scores can be found on the Graduate School website for International applicants.
8. Approval of Admission

Degree-seeking applicants who have met all admission requirements of the Graduate School and the departmental/program requirements, and are recommended by a department / program, generally are admitted to the Graduate School.

The Dean of the Graduate School grants final approval of admission, assuming general admission requirements have been met, and when evidence indicates a high probability of success in the prospective degree program. Applicants may not be considered regardless of a previous institution's credentials if their application is deemed inadequate, incomplete, or insufficient.

All prospective students must be accepted by the department or program in which they seek a degree or graduate study. If the prospective student has not met all of the admissions requirements, but the department / program supports the student’s admission, the department/program may request a Provisional Admission to the program (see below). Provisional admission has conditions that the student must meet within a specified time period. Contingencies are noted on the admission certificate that is sent to the student.

*Departments and/or degree granting units and the Graduate School have the right to deny admission to any student, regardless of whether they meet the minimum admission requirements, and are not required to provide a reason for denial.*

9. Notice of Admission to Applicant

The Graduate School issues an admission certificate to the applicant when he/she has been accepted for graduate study at Washington State University. Applicants who attend Washington State University before complete credentials have been submitted and approved do so at their own risk.

**Enrollment status**

All master's degree students are required to enroll for a minimum of 2 credits every fall and spring semester until they complete all of their degree requirements (see Section A.2 of this policy). Graduate leave is available to those students who must be away from campus for personal reasons (see Section A.6 in this policy). Students in official internship leave status (see Section A.7 in this policy) are not required to register for credit unless their program requires it. If master's degree students do not register for credit or go into approved graduate leave or internship leave status, their absence is unapproved. Such students may reenroll and pay a $25 fee if they are absent for one or two consecutive semesters (excluding the summer; see Section A.3 in this policy). Reenrollment also requires departmental approval and is not guaranteed. Students who are absent for three consecutive semesters (excluding the summer) will be dropped from the Graduate School (see Section A.4 in this policy).
Continuous enrollment: All full- and part-time degree-seeking graduate students at all campus locations must maintain continuous enrollment in the Graduate School, registering for each semester, excluding summer sessions, from the time of first enrollment until all requirements for the degree are completed. Continuous enrollment is maintained by registering for a minimum of 2 graduate credits per semester (excluding the summer). International students who enroll for fewer than 10 credits must be approved by OISS, in consultation with the Graduate School, prior to part-time enrollment during the academic year. Exceptions to the continuous enrollment policy are noted in Section A.2.b. Continuous doctoral status (CDS), explained in Section A.2.a meets the continuous enrollment requirement.

b. Exceptions to Continuous Enrollment

Typically, degree-seeking graduate students enroll in credits every semester until degree completion; however, sometimes circumstances are such that degree-seeking students are unable to enroll for credits. Such circumstances may include illness, family issues, financial need, work, or other obligations.

The exceptions to continuous enrollment discussed in this section address circumstances in which a degree-seeking student must be away from campus and cannot enroll for credits. These students must complete the appropriate graduate leave or internship leave paperwork, obtain approval from their faculty advisor and program chair, and submit the paperwork to the Graduate School in advance of the semester they will be away. Official leaves of absence, internship leave status, and absences not approved under this policy are included in the time limits to complete a degree.

1. Graduate Leave of Absence. Degree-seeking students in active status who must be away from campus for reasons such as medical issues (EFML), family obligations, job obligations, military service, and Peace Corps service, and who cannot maintain continuous enrollment in any given semester, may apply for an official graduate leave of absence. See Section A.6 for additional information and procedures. Only graduate leave for medical reasons (EFML), military service, and Peace Corps service is available to doctoral students in continuous doctoral status. Students who are approved for graduate leave while in continuous doctoral status will not be charged the $50 administrative fee.

2. Internship Leave. Degree-seeking students who wish to go on an internship approved by their program and who do not need to register for credits for the internship may apply for internship leave status. See Section A.7 for information and procedures

Reenrollment for a Degree-seeking Student

3. (This reenrollment policy does not apply to doctoral students in continuous doctoral status). A degree-seeking graduate student (who is not in continuous doctoral status) who does not maintain continuous enrollment or who is not on approved graduate leave or internship leave status, and who is absent for one semester or two consecutive semesters (excluding the summer) must complete the reenrollment form before the student can register for classes. Reenrollment requires a nonrefundable processing fee because the student is returning from an unapproved absence. Reenrollment also requires departmental approval and is not guaranteed. Students enrolling after being in
continuous doctoral status, or on approved graduate leave or internship leave, do not have to complete the reenrollment form or pay the reenrollment fee.

**Readmission for a Degree-seeking Student**

4. A degree-seeking graduate student who fails to maintain continuous enrollment or approved graduate leave or internship leave, and who is absent for three or more consecutive semesters (excluding the summer) is required to reapply and pay a nonrefundable application fee to the Graduate School if he/she wishes to be considered for readmission to a program. Readmission is not guaranteed.

**Registration**

The student is responsible for completing appropriate enrollment procedures each semester. The Graduate School sends an official Admissions Certificate to students accepted into a graduate program at WSU. This includes instructions for registration for the first semester of study. Students should contact their advisor (or the faculty or staff representative of the appropriate program of study) for advice concerning specific class requirements or recommendations. The student then registers for classes using the on-line registration site at Zzusis. Appropriate login information for this site will be included with the Admissions Certificate.

**Appropriate Levels of Registration (Credit Load)**

**Full-time Students.**

Graduate students must register for a minimum of 10 credit hours to maintain full-time enrollment status in the fall and spring semesters. All full-time graduate students must register for at least one (1) 700 (masters), 702 (non-thesis masters) or 800 (doctoral) level research credit each semester to track faculty advisor effort. (Students should check with their departments for additional information and/or exceptions to this policy)

**Part-time Students.**

Graduate students must register for a minimum of 2 credit hours and no more than 9 credit hours to maintain part-time enrollment status in the fall and spring semesters.

**While graduate students may be required by their major program to register for a greater number of credit hours, they must enroll at least for the following minimums.**

1. All full- and part-time degree-seeking students are required to register for a minimum of 2 graduate credits per semester (excluding the summer), unless they are in continuous doctoral status, or approved graduate leave or internship leave status.

2. Students not on appointment as teaching, research, or staff assistants, and enrolling solely
for the purpose of a) completing theses or special projects; b) taking preliminary examinations; or c) taking master's or doctoral final examinations, must register for a minimum of 2 semester hours of the applicable 700, 702, or 800 course at Washington State University during that semester or summer session.

3. Graduate students on appointment as teaching, research, or staff assistants during the academic year must be enrolled full time for a minimum of 10 credit hours or 3 credit hours during the summer.

4. Students on non-service appointments must enroll for a minimum of 10 credit hours per semester during the academic year.

5. Students on non-service appointments for the summer must enroll for a minimum of 3 hours during the eight-week summer session.

6. A normal academic load for a full-time graduate student is 10-12 credit hours; however, under specific circumstances, individual programs may require more.

7. International students in F-1 and J-1 status should consult with the Office of International Students and Scholars (OISS) for enrollment requirements. In general, international graduate students are required by the U.S. Department of Homeland Security to enroll for at least 10 credits during the regular academic year.

8. International students with valid academic, administrative, or medical reasons may be granted part-time enrollment authorization using the approved Reduced Course Load form. This includes students who have completed all required courses and are enrolled for thesis/dissertation credits only. A Reduced Course Load must be approved by OISS, in consultation with the Graduate School, prior to part-time enrollment during the academic year.

9. Loads in excess of 18 credit hours in a regular semester, or 8 or 10 credit hours in six- and eight-week summer sessions, respectively, are considered overloads and must have the approval of the major professor and the concurrence of the Dean of the Graduate School. Students on appointment as teaching, research, or staff assistants or associates also must have approval of their supervisors in order to take an overload. Credit hours of enrollment in "Audit" status are not included in calculating the student's academic load.

10. Students may enroll for a minimum of 2 graduate credit hours during a fall and/or spring internship, but are not required to do so unless it is a program requirement. International students must consult with the Office of International Programs for employment authorization before committing to an internship experience.

**Official Graduate Leave of Absence**

The following official graduate leaves of absence are intended to provide the degree-seeking student in active status with some continuing services during their time away from campus for the reasons stated below. Students may not be enrolled during the semester(s) in which they have been approved for Graduate Leave or Emergency/Family Medical
Leave (EFML). Graduate leave (including EFML) does not extend the time limitations for degree completion (see Chapter 6, Section E). Extensions must be requested according to Graduate School procedures (see Chapter 6, Section F).

a. Graduate Leave Status (GLS)

Graduate Leave Status is granted for students in active status (enrolled or in CDS) who must be away from their studies for one or more semesters for personal, family, job, financial, military or Peace Corps service, or other compelling reasons. Only graduate leave for medical reasons (EFML), military service, and Peace Corps service is available to doctoral students in continuous doctoral status. Students must apply for Graduate Leave through the Graduate School by completing the Graduate Leave form. The Graduate School must receive the Graduate Leave form no later than the 10th day of class during the semester in which the leave is requested, unless the student is requesting EFML. If the student is not enrolled or in CDS, the student must follow procedures to either reenroll or reapply to their program before a graduate leave request will be considered. The leave must be approved by the student’s committee chair, program chair, International Programs (for international F-1/J-1 students only) and Dean of the Graduate School. A student may be on Graduate Leave for a total of up to one calendar year during their studies, but leave time may be extended for special circumstances (e.g., for military or Peace Corps service). Graduate Leave beyond one calendar year during a student's studies is not guaranteed. Graduate Leave entitles students to maintain access to library services if needed. At the end of the leave, the student will be able to reenroll for credits without completing the reenrollment form or paying the reenrollment fee. International students must submit information on their finances to the Graduate School if they require issuance of new immigration documents (Form I-20/DS-2019).

b. Emergency Family/Medical Leave

Emergency Family/Medical Leave is a type of Graduate Leave for graduate students who must leave school for one or more semesters due to a medical or family emergency that is defined under the federal Family Medical Leave Act. (For absences within a given semester related to the birth or adoption of a child, please refer to Short-term Parental Leave in Section 6.c.) EFML entitles graduate students in good standing to be away from the university but maintain some benefits and services during their leave period, including use of the University libraries. EFML status also entitles graduate students to maintain their eligibility for student health insurance on a self-pay basis for a period of one semester as approved by Health and Wellness Services. Students need to have been a participant in the student health insurance plan immediately preceding the EFML leave to be eligible.

EFML must be coordinated with the Graduate School, the student’s program advisor and chair, International Programs (for international students only) and also with Health and Wellness Services if the student wishes to maintain eligibility for student health insurance benefits. Graduate students must submit a Graduate Leave form, along with the Medical Leave form, to program advisor, program chair, and the Graduate School prior to the semester in which EFML is needed, unless the leave is an emergency. EFML policy does not apply to specific program requirements or the terms and conditions of assistantships, fellowships and other forms of financial aid. At the end of the leave, the student does not need to complete the Reenrollment form or pay a reenrollment fee to reenroll in their program. EFML generally is limited to one calendar year during a student's graduate
students. Students who require EFML leave for more than one calendar year must obtain program support and Graduate School approval in advance to extend the leave beyond the first year. Extensions to EFML are not guaranteed, and students will not be eligible for student health insurance. Students on approved EFML do not have to complete a reenrollment form or pay a reenrollment fee.

Graduate students who want access to the student health insurance program during their first semester of EFML must submit an EFML application to Health and Wellness Services (contact HWS for the application). If the leave begins mid-semester, the University’s policies and procedures related to withdrawals, refunds, continuation of benefits, and termination of assistantships (and other forms of financial aid) apply for that semester. Access to the student health insurance program via EFML, if approved, will apply for the following semester. Students should contact Health and Wellness Services for an EFML application and information related to insurance premiums for the semester on leave.

C. Short-term Parental Leave

The Short-term Parental Leave plan provides up to four consecutive weeks of leave for the period directly before or after the birth or adoption of a child. During this time, the student continues to be enrolled and, if on an assistantship appointment, the student will continue to receive graduate assistant benefits (i.e., tuition waivers will remain in place), health benefits, and his/her salary.

Eligibility: The Short-term Parental Leave plan applies to all full-time enrolled graduate students at all campus locations anticipating the birth or adoption of a child. Eligible graduate students are those who have been full-time graduate students for at least one academic year (two academic semesters, not including the summer) at the time Parental Leave is taken. Students must maintain their full-time enrollment status during Parental Leave.

- A full-time graduate student on an assistantship appointment is eligible for four consecutive weeks of paid Parental Leave from his/her graduate program. In the event that both parents are full-time graduate students at WSU, only one may take Parental Leave or the four consecutive weeks may be shared between them.
- Full-time graduate students who are not on an assistantship may request Parental Leave without tuition or salary support.

Financial Support for Graduate Assistants: The Graduate School has established a process to provide temporary financial assistance to programs to enable them to continue to support students on graduate assistant appointments during Short-term Parental Leave. These funds will be provided by the Graduate School to ensure that the graduate student’s funding is continued during their approved leave period and the research/teaching efforts of the department are not adversely affected.

Programs should request salary replacement funds for graduate assistants who seek Parental Leave via the Short-Term Parental Leave form, which should be signed by the student, the faculty advisor and the Program Chair, and submitted to the Dean of the Graduate School. These short-term replacement funds will be available for graduate assistants on any funding source. In addition to the temporary salary funds, the Graduate School will maintain resident and non-resident tuition waivers for the assistant during the
approved Short-term Parental Leave period, not to exceed the current appointment period. For students on grant funding, the Graduate School will provide pro-rated tuition waivers to replace the QTR during the approved Short-term Parental Leave period.

Short-term Parental Leave Academic Plan: Faculty and other mentors are expected to work with graduate students to make fair and appropriate alternative arrangements during Parental Leave in the form of a written Parental Leave Academic Plan approved by the student’s course instructors, if applicable, and the major advisor. Students should alert their program chair and advisor as soon as they know of the impending need for a leave so that any necessary work adjustments (for graduate assistants) and academic arrangements may be made. Students who are planning to request a Parental Leave should meet with their faculty advisor no fewer than ten weeks prior to the proposed start of the leave to develop a plan for their academic work. The agreed upon plan should be attached to the Short Term Parental Leave form before it is submitted to the Graduate School. The Disabilities Resource Center should be consulted if there are medical issues that require reasonable accommodation. While graduate assistants will not be required to perform any duties during their period of Parental Leave, they may want to maintain a certain amount of involvement with their advisor during the Parental Leave period. This involvement should be mutually agreed upon by the student and the faculty member.

Short-term Parental Leave Procedures: Parental Leave may extend up to four consecutive weeks. Graduate students who seek Parental Leave should complete a Short-Term Parental Leave form, attach a copy of their academic plan for the leave, and have the form signed by their faculty advisor and program/department chair. The form must be submitted to the Graduate School no later than eight weeks prior to the anticipated start date of the leave. The student and graduate program will be notified in writing of the Graduate School’s decision on the Short-Term Parental Leave request. In addition, if the student is on an assistantship appointment, the Graduate School will work with the program to provide funds for the continuation of the student’s salary during the leave period. After the period of approved leave, graduate assistants are entitled to return to their assistantship positions for the duration of their current appointment.

Absences beyond Short-Term Parental Leave: The Short-Term Parental Leave plan does not cover medical situations or complications due to childbirth. Programs may provide additional unpaid time off beyond the Parental Leave based on the student’s documented needs, but university policies regarding reasonable accommodation and/or Graduate Leave must be followed. Graduate students should apply for an official leave of absence (see section A.6 in this chapter) from their graduate studies if they anticipate being absent for an entire semester or more. Students should be advised that there is no guarantee of an assistantship position after returning from an absence beyond the Short-term Parental Leave.

**Internship Leave**

Internship Leave entitles graduate students in good standing to be away from the
university in a full-time internship while maintaining access to student health insurance, faculty and staff counsel, and use of the University libraries. Students may not be enrolled during the semester in which they have been approved for Internship Leave. Internship Leave entitles graduate students to maintain their eligibility for student health insurance on a self-pay (or department pay) basis. Internship Leave is available for a period of up to one semester, and may continue for an additional semester if the internship is continuous and part of the student’s official course of study.

Extensions to internship leave beyond two consecutive semesters must be recommended in advance by the program and approved by the Graduate School. Extensions to internship leave are not guaranteed, and the student will not be eligible for student health insurance during the extension. Internship Leave should be used by doctoral student who have completed all of their program requirements except their final program-required internship.

a. To be eligible for Internship Leave, a graduate student must be approved for an internship by his or her faculty advisor. The graduate student does not have to register for credit for the internship unless it is required by their program.

b. The student must have registered for and completed at least one semester as a graduate student at WSU prior to going on Internship Leave. Graduate students can apply for Internship Leave by completing the Graduate Internship Approval form and submitting it to the Dean of the Graduate School one semester prior to the internship.

c. International students must consult with the Office of International Programs regarding employment eligibility. Internship Leave through the Graduate School does not constitute employment authorization for immigration purposes.

**Maximum Time Limits for Completion of Master’s Degree:**

Most full-time students enrolled in master’s degree programs at WSU require 2-3 years for completion of their program. The maximum time allowed for completion of a master’s degree is 6 years from the beginning date of the earliest course applied toward the degree. The Graduate School recognizes some programs are designed for the part-time student and can be expected to require a longer completion period. As appropriate, departments may request an extension of this time limit as described in Chapter 6 (General Academic Requirements).

**Program of Study**

General university requirements and descriptions for the student’s Program of Study are described in Chapter 6 (General Academic Requirements). The student’s advisor, in consultation with suggested committee members, should aid the student in the development of their proposed Program of Study, which is then submitted to the chair of the appropriate graduate program. It is the chair’s responsibility to assure that the program meets the minimum requirements of the respective program and Graduate School. The chair will submit the program to the Dean of the Graduate School for approval to assure that the program meets the minimum requirements of the Graduate School.

The [Program of Study](#) for a master’s candidate should be submitted on forms provided by the Graduate School as soon as possible, but no later than the beginning of the semester preceding
the anticipated semester of graduation (e.g., anticipated graduation in spring, the program of study is due no later than beginning of preceding fall semester).

**Filing the Program of Study**

After the proposed Program of Study form is completed by the graduate student, it must be signed by each advisory committee member and submitted to the program chair of the major graduate program and the chair of the minor program (if applicable) who ensure that it meets the requirements of the programs and Graduate School. The chair will submit the Program of Study to the Dean of the Graduate School for approval to assure that it meets the minimum requirements of the Graduate School.

**Changing the Program of Study**

Changes made to the Program of Study must be documented with the appropriate signatures signifying the endorsement of the master’s committee and the approval of the chair of the program and submitted to the Graduate School. If program changes are made, the Change of Program form must be completed, signed and submitted to the Graduate School before a student may submit an Application for Degree.

**Fulfilling the Program of Study**

Once approved, the master’s Program of Study becomes the basis of the requirements for the degree.