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I. ORGANIZATION OF DEPARTMENT
The Department of Cell Biology and Physiology is one of seven departments in the College of Life Sciences. Within the department there are approximately 22 full-time faculty and staff members, 450 undergraduate majors, and 20 graduate students. Graduate degrees at the MS and PhD level are offered in Cell Biology and Physiology. Graduate Faculty members are listed below:

A. CELL BIOLOGY AND PHYSIOLOGY GRADUATE FACULTY
Adams, Jason, Associate Teaching Professor (2019). BS, Brigham Young University 1999; DC Palmer School of Chiropractic 2003; MS, Boise State Univ. 2008; Ph.D. BYU 2012. Teaching interests are Human Anatomy, Human Physiology, Human Embryology, Medical Imaging and Developmental Biology.


* Barrow, Jeffery R., Associate Professor (2003): BS BYU 1990, Ph.D. University of Utah 1999. The major focus of the lab is to identify molecular mechanisms whereby the Wnt signaling pathway regulates the outgrowth of limbs and craniofacial structures during embryogenesis and how this pathway when aberrantly activated results in tumorigenesis.

* Bikman, Benjamin T., Associate Professor (2011): BS BYU 2003, Ph.D. East Carolina University 2008. Elucidate the molecular mechanisms that mediate the complications associated with obesity and metabolic diseases, with particular attention on lipid – and inflammation-induced insulin resistance.


* Edwards, Jeffrey G., Professor (2007): BS BYU 1994, Ph.D. University of Utah 2003. Learning and Memory- Using electrophysiology in combination with pharmacology and molecular biology techniques, the lab is identifying mechanisms in the hippocampus mediating synaptic plasticity, the cellular event resulting in learning and memory formation. The goal is to understand normal function and as a result apply this to abnormal states such as epilepsy, addictions, and Alzheimer’s.
* Hansen, Jason M., *Associate Professor* (2014): BS, BYU, 1994; MS, BYU, 1996; PhD, University of Michigan, Ann Arbor, 2001. Cellular function is dependent upon numerous factors, including the balance of reducing and oxidizing equivalents or redox state. During periods of redox imbalance, cellular processes are perturbed, indicative of changes to cellular proliferation, differentiation and apoptosis. Our laboratory focuses on oxidative stress-related changes to cell signaling during embryonic development in efforts to better understand mechanisms of birth defects.

* Hill, Jonathon T., *Assistant Professor* (2015): BS, BYU, 2005; PhD Columbia University, 2010. Congenital heart defects are the most common form of birth defects in the United States. In order to understand the mechanisms underlying these diseases, we are using interdisciplinary approaches combining the zebrafish animal model, molecular biology, genetics and bioinformatics to characterize the gene regulatory network driving heart differentiation and morphogenesis.

* Jenkins, Timothy G., *Assistant Professor* (2019): BS, BS Brigham Young University 2008; Ph.D. University of Utah, 2013. Understanding the male gamete and its contributions to fertility, normal embryogenesis and offspring health beyond the delivery of the paternal DNA blueprint. Also focusing on epigenetic signatures in the sperm that can be modified (and corrected), throughout an individual's lifetime by exposure to various agents, adherence to a specific lifestyle (unhealthy, sedentary, etc.), and even through natural aging.

* Kooyman, David L., *Professor* (1997): BS California State Polytechnic University, Pomona 1982, MS California State Polytechnic University, Pomona 1986, Ph.D. Ohio University, Athens 1993. Osteoarthritis as a multi-factoral disease involving inflammation, metabolic syndrome, primary cilia and mechanical stress. We use both transgenic and mechanical models to study this common disease, employing a number of techniques.

* Mizrachi, Dario, *Assistant Professor* (2017): BS and MS University of Santiago, Chile, 1995. PhD Hebrew University of Jerusalem, Israel 2002. Integral membrane proteins (IMP) represent 30% of our genome. IMPs exchange information with the environment and build barriers to preserve and protect us. Mizrachi laboratory has engineered molecular tools to make the study of IMPs more approachable and successful. We primarily focus on cellular junctions and their role in physiology, neurophysiology, & pathology.

* Porter, James P., *Professor & College Dean* (1998): BS BYU 1976, MS BYU 1978, Ph.D., University of California at San Francisco, 1982. Autonomic control of the cardiovascular system, focusing on the role hormones such as angiotensin II, insulin, and vasopressin play in modulating neural regulation of blood pressure. Research emphases are on how these hormones shape the development of
neuronal circuits for cardiovascular control in young adults.


* Stark, Michael R., Professor & Dept. Chair (2001): BS BYU 1992, MS Idaho State University 1994, Ph.D., University of California, Irvine, 1998. Developmental Biology – how neuronal precursor cells communicate with one another during early events in nervous system development. Research in the lab focuses on identifying molecules involved in early cranial placode development. Currently, we are investigating the role of Wnts, Frizzleds, FGFs and FGF receptors in trigeminal placode development.

* Sudweeks, Sterling N., Associate Professor (2001): BS BYU 1992, Ph.D. University of Utah, 1997. Modulation of ligand-gated ion channel physiology by gene expression. These channels are involved in synaptic transmission and implicated in several conditions (e.g., epilepsy, Alzheimer’s disease, Parkinson’s disease, motor disorders, and schizophrenia). They are also the pharmacological targets in many therapeutic situations (e.g., any general anesthetics, sedatives, antiemetics, and even more novel analgesics).

* Suli, Arminda, Assistant Professor (2013): BS BYU 1999, Ph.D. University of Utah, 2007. Neural Circuitry Development. The mechanisms that oversee proper development and formation of neural circuits. The development and innervation of specialized mechanosensory cells which are crucial for hearing and balance.


* Yorgason, Jordan T., Assistant Professor (2018): AS Utah Valley University 2004; BS, Brigham Young University 2008; Ph.D. Wake Forest University Baptist Medical Center 2013; Postdoc Vollum Institute 2016. Neural Circuitry Underlying Drug Seeking Behavior focusing on three different brain areas all involved in the transition from initial drug use to habitual drug seeking: the basolateral amygdala, ventral tegmental area, and striatum. Electrophysiological, electrochemical, functional imaging and behavioral approaches are used to better understand drug use disorders.

* May serve as Committee Chair for CELL Graduate Students
I. APPLICATION AND ADMISSION TO THE GRADUATE PROGRAM

Complete information and general procedures to apply to graduate school at Brigham Young University are contained in the Graduate Catalog (online at gradstudies.byu.edu). The following summarizes some of that information and adds departmental requirements that are supplementary to the catalog.

A. Application Procedure

A person applying to either of the MS or PhD degree programs should apply online at: https://gradstudies.byu.edu/section/prospective. A non-refundable fee of $50 is required. The Letter of intent must explicitly state the applicant’s field of interest and career goals. Doctoral applicants with a Baccalaureate degree from BYU (any campus) are generally encouraged to apply to a different institution for the PhD degree programs, although they may apply for the MS programs. There is an application addendum required summarizing the student’s interest, fit, and desire to conduct research with at least 5 specific faculty members in the CELL program.

B. Standardized Tests

While not required, Doctoral and Master’s applicants are highly encouraged to furnish Graduate Record Examination (GRE) scores (preferred), or scores from another national standardized exam (e.g., MCAT or DAT). Non-US applicants must provide sufficient documentation to permit an appropriate evaluation of their previous academic performance. Applicants whose native language is not English must also successfully complete one of the following exams with a minimum score as given below. TOEFL is preferred.

<table>
<thead>
<tr>
<th>LANGUAGE TEST</th>
<th>MINIMUM SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS</td>
<td>6.0 in each section, 7.0 overall</td>
</tr>
<tr>
<td>TOEFL PBT (paper-based)</td>
<td>580</td>
</tr>
<tr>
<td>TOEFL iBT</td>
<td>85 (22 in Speaking, 21 in Listening, Reading, &amp; Writing)</td>
</tr>
<tr>
<td>E3PT</td>
<td>79 (21 in Speaking, Reading, and Listening, &amp; 16 in Writing).</td>
</tr>
</tbody>
</table>

C. Prerequisites

Research experience is strongly encouraged before entrance into one of our graduate programs. It is advised that a research mentor write one of the applicant’s letters of recommendation. Before entrance into graduate school, applicants should have broad exposure to the sciences and have taken upper division courses in their area of interest. Specifically, applicants are expected to have taken all or all but one of the prerequisite courses listed below (examples from the BYU undergraduate
catalog are given after each prerequisite). Students lacking one of these courses may be accepted conditionally, contingent upon successful completion of the missing course during the first semester in the program.

<table>
<thead>
<tr>
<th>Prerequisites for MS and PhD in Cell Biology and Physiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell or Molecular Biol. (e.g. CELL 360 or MMBIO 240)</td>
</tr>
<tr>
<td>Biochemistry (e.g. Chem 481)</td>
</tr>
<tr>
<td>Two or more of the following:</td>
</tr>
<tr>
<td>Physiology with lab (e.g., CELL 362, 363)</td>
</tr>
<tr>
<td>Developmental Biology (e.g., CELL 382)</td>
</tr>
<tr>
<td>Genetics (e.g., PWS 340)</td>
</tr>
<tr>
<td>College Physics (e.g. Physics 105, 106)</td>
</tr>
</tbody>
</table>

**D. Application Deadlines**

The completed application must be received by the deadlines listed below.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Submission deadline*</th>
<th>Departmental decision</th>
<th>Expected date for student notification</th>
<th>Earliest start date**</th>
<th>Usual start date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>Jan 15</td>
<td>Feb 1</td>
<td>Feb 15</td>
<td>Spring</td>
<td>Fall</td>
</tr>
<tr>
<td>MS</td>
<td>Feb 15</td>
<td>March 15</td>
<td>April 1</td>
<td>Spring</td>
<td>Fall</td>
</tr>
</tbody>
</table>

*Date by which all application materials must be submitted to have application be considered as complete. Submit at Graduate Studies website (https://gradstudies.byu.edu/section/prospective).

** International students must begin Fall Semester

**E. Acceptance Criteria**

Before acceptance, applications are screened by the Department Graduate Committee, and approved by the Department Faculty, Chair, and BYU Graduate Office. The following items are considered in the evaluation of each application to the Department of Cell Biology and Physiology for entrance into the MS or PhD program:

- Grade Point Average in upper division classes over last 60 semester hours (3.0 minimum)
- Scores on national standardized examinations
- Specific grades in science and math courses (including the listed prerequisite courses; see section I.C, above)
- Letters of Recommendation (one from a research mentor, if available)
- Letter of Intent (containing field of interest and career goals)
- Application Addendum summarizing interest level, likely fit, and desire to conduct graduate research with at least 5 specific faculty members in the program
Availability of a graduate student position with a faculty member in the focal area of research interest

Academic credentials and accompanying recommendations in comparison with those of other applicants to our department for the same date of entry

F. Financial Assistance

This section outlines what financial support is provided to graduate students by the department and how to apply for additional funds.

Teaching and Research Assistantships

a) MS Students

The department does not guarantee financial support for MS students. They may be funded through research assistantships (RA) from external funds obtained by the lab they are working in. If such funds are not available, they are eligible to apply for financial support from the department, primarily in the form of teaching assistantships (TA). The department awards these TAs to MS students based on their qualifications, performance in the program, and the availability of positions. RAs are also available through various university programs and provide the same level of support as a TA while allowing the student to work full time in the research lab. MS students may also receive up to $1000 per semester for tuition for four semesters (F,W; two years), depending on the availability of funds. Additional tuition monies may also be available from the department during Spring and/or Summer Terms, but are not guaranteed. Departmental financial support beyond the second year may be considered for MS students when funds exist, but will be lower priority than for students in their first and second years.

b) PhD Students

PhD students are generally guaranteed four years of financial support through Teaching Assistantships (TA) or Research Assistantships (RA) for Fall, Winter, and Spring/Summer. The student’s Research Advisor is encouraged to provide at least 1/3 of this support through external monies. Four years of full tuition support is also provided for PhD students. Departmental financial support beyond the fourth year may be considered for PhD students when funds exist.

G. Graduate Student Travel Funds

Graduate students may apply to BYUGSS for GSS Funds and/or their Committee Chair for department funds to help defray the cost of attending a national scientific conference. Priority for travel requests will be given to those students who:

- Have filed their Prospectus by the proposed date of travel
- Are an author on the abstract (priority funding given to first authors)
- Submit a budget to their Committee Chair including transportation, registration, housing, food, and other expenses (form D-5, available from the Department Graduate Program Manager)
Additional Student Funding Opportunities

Graduate students may also apply for the following Department/College/University funding opportunities, depending on their needs and qualifications.

<table>
<thead>
<tr>
<th>ADDITIONAL FINANCIAL ASSISTANCE AVAILABLE</th>
<th>Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSITY AWARDS</strong></td>
<td></td>
</tr>
<tr>
<td>RESEARCH PRESENTATION AWARD: A travel award given by BYUGSS. Awards are around $400 and are for presenting graduate research at a national/international conference. Applications are accepted every fall and winter semester. Details and applications can be found online at <a href="https://gradstudies.byu.edu/page/research-presentation-award">https://gradstudies.byu.edu/page/research-presentation-award</a></td>
<td>Typically Feb 1 and Oct 1</td>
</tr>
<tr>
<td><strong>DEPARTMENT AWARDS</strong></td>
<td></td>
</tr>
<tr>
<td>TUITION SCHOLARSHIPS: The Department awards several tuition scholarships yearly to graduate students. Most awards provide half tuition for one semester. These funds come from the Ted &amp; Della Hanks Scholarship and Cell Biology and Physiology Scholarship. Scholarships are awarded based on academic and laboratory performance to students engaged in research within the Department. Applications can be obtained from <a href="https://lsscholarships.byu.edu/UserLogin?returnurl=%2f">https://lsscholarships.byu.edu/UserLogin?returnurl=%2f</a>. For additional information, contact the Department Graduate Program Manager.</td>
<td>Feb 1</td>
</tr>
<tr>
<td>RESEARCH ASSISTANTSHIPS: The Department awards 6-8 RAs yearly to graduate students. Assistantships are awarded based on academic and laboratory performance to students engaged in research within the Department.</td>
<td>One month before the start of each semester</td>
</tr>
<tr>
<td>699-799 RESEARCH FUNDS: (Form D-4) $300 - $400/year for research related expenses (lab supplies, necessary software, etc). Must submit Prospectus in advance.</td>
<td>No deadline. Submit early in calendar year.</td>
</tr>
<tr>
<td>TRAVEL AWARD: About $600 per student per year is available for travel to present graduate research at a national/international conference. Submit request to your faculty mentor.</td>
<td>At least one month before travel date.</td>
</tr>
</tbody>
</table>

**Qualifications for Graduate Financial Awards**

To qualify for financial support (e.g., Assistantship, Travel, and Tuition Award) candidates must be in good standing with a minimum 3.0 GPA and be registered for at least 6 hours per semester or 1 hour per term (if last semester of study: 2 hours per semester and 1 hour per term).
II. INFORMATION FOR NEW GRADUATE STUDENTS

A. General Information
These guidelines have been prepared for the graduate student in Cell Biology and Physiology and must be used in conjunction with those in the BYU Graduate Catalog. The BYU Graduate Catalog can be found online at https://gradstudies.byu.edu/section/current.

Keeping Current
Graduate students must keep current on changes made each year in the graduate program at both the Department and University levels. The ultimate responsibility to comply with all department and university requirements rests with the student. To request an exception see the Graduate Program Manager. Petitions must be approved by the Student’s Advisor, Department Graduate Coordinator, Department Chair, and College Dean.

Financial Assistance
The department strives to provide substantial financial support to all graduate students. This is typically in the form of teaching assistantships (TA) and research assistantships (RA). The Graduate Coordinator and Graduate Program Manager make TA assignments, and specific requests to TA a particular course should be submitted by email to the Graduate Program Manager four weeks prior to each semester. Additional financial assistance is also available as described in section II.F.

B. Lab Rotations and Mentor Selection
The purpose of lab rotations is to help new graduate students identify a mentor with whom they would like to work. Additionally, rotations help students to select potential research projects and to learn techniques not available in their mentor’s lab.

MS Students
There will be no laboratory rotations required if the student has selected a mentor before starting their MS program. However, if a student does not have a mentor selected, then they may do laboratory rotations (CELL 649R) with eligible faculty members of their choice. If desired, the student can seek advice about possible rotation laboratories from the department Graduate Committee or other faculty members. Rotations will take place during the student’s first semester in the MS program. Once an MS student decides on a mentor, no further rotations are required. Since time is of the essence in the successful completion of a Master’s degree, the selection of an advisor should be completed no later than the end of the first semester.
PhD Students

PhD students must enroll in 3 laboratory rotations (2 credit hours each for a total of 6 credit hours of CELL 649R) during their first year of graduate study. If the student has not identified a mentor before starting the program, these rotations will provide exposure to faculty research interests, and allow for the identification of an appropriate mentor. Once a mentor has been selected (either before entering the program or before the completion of all three rotations), the student should consult with them in determining whether to perform the remaining rotations in the mentor's laboratory, or with another faculty member (e.g. to strengthen collaborations or learn additional lab techniques). Laboratory rotations consist of active participation in the lab, with a time commitment of at least 20 hours per week per block or 10 hours per week per semester. The student is responsible for choosing and making the arrangements for rotation laboratories. The student may consult with the graduate committee or other faculty members in deciding which laboratories to include.

C. Advisory Committee and Program of Study

The student's Advisory Committee and course outline are established by the same means. Submit at https://gradprogress.sim.byu.edu. In cooperation with their Research Advisor, the student should select committee members and a program of study appropriate to their graduate program. Advisory Committee members provide support, feedback, and supplemental guidance to graduate students and should be regularly available to the student. Some faculty may not be available to serve on a graduate committee because of prior responsibilities.

Procedure for Committee Selection

The student should clear Advisory Committee names with their Research Advisor. They should then contact each member individually and ask them to be on the Advisory Committee. An initial committee meeting should be scheduled soon after the student establishes a tentative course outline with their Research Advisor. If the student has declared a minor, one committee member must be from that department. If the student wants a graduate faculty member from another university to be on their committee, they must fill out a Petition for Exception stating their reason(s) and obtain the appropriate information and signatures for the Office of Graduate Studies approval. Committee members must be selected according to the following university rules:
### Program of Study (Course Outline)

The student should consult with their Advisor about their Program of Study. The university and departmental requirements for MS and PhD programs are listed in the sections below (see III.D and III.E). However, significant latitude is allowed within these requirements for individually tailored graduate programs. The Advisory Committee and Graduate Program Manager must approve the final Program of Study. The student should fill out a trial Program of Study form and have it with them when they first meet with their Advisory Committee. Submit to Graduate Program manager at [https://gradprogress.sim.byu.edu/](https://gradprogress.sim.byu.edu/) for review and committee’s final approval.

### Deadline to File Program of Study

All graduate students must file their “Program of Study for Graduate Students” form according to the deadlines given below. This form must be submitted in time in order to maintain status as an active graduate student. If necessary, changes can be made by filing a change form signed by the Advisory Committee and Graduate Coordinator.

<table>
<thead>
<tr>
<th>Program</th>
<th>Absolute Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS</td>
<td>End of 1st semester</td>
</tr>
<tr>
<td>PhD</td>
<td>End of 2nd semester</td>
</tr>
</tbody>
</table>

### D. University Requirements

BYU stipulates the following minimum standard for graduate programs:

#### Credit Hours

a) MS

- The minimum requirement is **30 credit hours** (24 course work and 6 thesis hours); 20 hours must be in the 500 series or above (can include 699R, etc.)
- No more than 10 hours of non-degree credit and no home study (except prerequisites) can be applied toward the MS degree
- Undergraduate Credit. The Office of Graduate Studies allows up to 9
credit hours of undergraduate courses (e.g. BYU 300-400 level) if it pertains to the area of study. If more than that is needed for the student’s course outline, a Petition for Exception is required for approval.

b) PhD

- The minimum required for students with no master’s degree is **54 credit hours** beyond the baccalaureate degree; the 54 hours may not include undergraduate (100 to 400 level) or more than 18 hours of dissertation credit. Students who have earned a master’s degree must complete at least 36 semester hours of additional graduate work at BYU beyond the Master’s degree.

**Transfer Credit**

Transfer Credit (or credit requested for classes taken but not counted in any previous degree program) should be graduate-level courses or equivalent, B grades or better, and no more than 10 hours.

- No foreign credit without certification by examination
- No lower division credit
- No extension credit
- No “P” (pass/fail) credit

**Minimum Registration**

The minimum registration for all active graduate students is 6 hr/semester until all didactic courses are completed, after which only 2 hr/sem is acceptable. Note that registration is not necessarily required during spring or summer term, but, 1) the University will terminate the graduate status of any graduate student that does not take at least 6 hr/academic year, and 2) during the final semester or term in which the student graduates, they must be registered for a minimum of 2 hours. There may be additional circumstances (e.g., if the student is receiving student loans) that necessitate other registration requirements.

Students who are enrolled for Winter Semester and who will also be enrolled for Fall Semester are eligible to work on campus during Spring and Summer Terms without taking classes during either term. However, any student employee who is not enrolled in at least 1 hr/term must pay the FICA tax during that term.

**Interrupted Graduate Program**

Students who desire to interrupt their graduate program at BYU must complete and have pre-approved for re-admittance either:

a. GS form 13 (for missionary, military, or medical reasons)

OR

b. GS form 6 (for students who are dropped for not maintaining
The student should meet university conditions as provided on the instructions and as explained in the University's Graduate Catalog under "Readmission". These forms are available from the Dept. Graduate Program Manager or from https://gradstudies.byu.edu/page/form-list. Leave will only be granted once and for not more than 2 years. This interrupted time period will still count in the University’s determination of 5 years maximum for an MS program and 8 years maximum for a Ph.D. program at BYU.

E. Departmental Requirements
Requirements for all graduate programs are listed in this section.

Prerequisite Classes
Students are expected to have taken all but one of the prerequisite classes (or equivalent). These classes are listed above in the table under section I.C. Any deficiencies should be made up during the first year. As specified above in section III.D “University Requirements”, up to 9 credit hours of advanced undergraduate classes can be counted toward the MS degree.

Seminar/Presentation Requirement
MS and PhD students are required to present one seminar on their research or research interests each year to the department. Typically, presentations are 25 minutes and presented as part of CELL 694R. All graduate students are expected to attend weekly seminars (CELL 696R) throughout their time in the program. Seminar attendance is recorded and at least 80% attendance is required for a passing grade.
MS in CELL
Required Coursework (note that some of these courses may be offered as 550R or 650R courses until renamed at a later date):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELL 660</td>
<td>Graduate Cell Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CELL 601</td>
<td>Graduate Physiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CELL 570</td>
<td>Responsible Conduct of Research</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PWS 633</td>
<td>Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PWS 633 OR Stat 511</td>
<td>Laboratory Research or Rotation</td>
<td>4</td>
<td>Credit for initial two semesters of lab work</td>
</tr>
<tr>
<td>CELL 510</td>
<td>Scientific Communication</td>
<td>1</td>
<td>Course on effective science writing (grant &amp; manuscript) &amp; speaking (oral and poster). Held block 1 of first fall semester in program.</td>
</tr>
<tr>
<td>CELL 692R (CELL 650R)</td>
<td>Current Science Discussions</td>
<td>2</td>
<td>A student-led, faculty-mentored “casual” journal club meeting. Held block 2 of every fall semester in the program. Students should attend throughout their time in the program.</td>
</tr>
<tr>
<td>CELL 694R</td>
<td>Research Presentation</td>
<td>2</td>
<td>0.5 credits per fall/winter semester; to be taken every semester in the program.</td>
</tr>
<tr>
<td>CELL 696R</td>
<td>Graduate Seminar</td>
<td>2</td>
<td>0.5 credits per fall/winter semester; to be taken every semester in the program.</td>
</tr>
<tr>
<td>CELL 699R</td>
<td>Masters Thesis</td>
<td>6</td>
<td>Credit for work on the Masters Thesis and Defense</td>
</tr>
</tbody>
</table>

**State of the Field:** Department Faculty Modules or Interdisciplinary Courses (electives) 6

Minimum of 4 credits (~2 modules) of CELL State of the Field modules required; the remaining 2 credits can be from CELL modules or other graduate courses offered across campus.

**Total Credits:** 33
**PhD in CELL**

Required Coursework (note that some of these courses may be offered as 550R or 650R courses until renamed at a later date):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Knowledge</strong></td>
<td><strong>6 Credit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CELL 660</td>
<td>Graduate Cell Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PDBIO 601</td>
<td>Graduate Physiology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Conducting Research</strong></td>
<td><strong>10 Credit Hours</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CELL 570</td>
<td>Responsible Conduct of Research</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PWS 633 (preferred) OR Stat 511</td>
<td>Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CELL 649R</td>
<td>Laboratory Research or Rotation</td>
<td>6#</td>
<td>Credit for initial three semesters of lab work</td>
</tr>
<tr>
<td><strong>Communicating Science</strong></td>
<td><strong>28 Credit Hours</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CELL 510</td>
<td>Scientific Communication</td>
<td>1</td>
<td>Course on effective science writing (grant &amp; manuscript) &amp; speaking (oral and poster). Held block 1 of first fall semester in program.</td>
</tr>
<tr>
<td>CELL 689R</td>
<td>Practicum in Life Sciences Teaching</td>
<td>2</td>
<td>Experience in teaching a life science course.</td>
</tr>
<tr>
<td>CELL 692R (CELL 650R)</td>
<td>Current Science Discussions</td>
<td>4</td>
<td>A student-led, faculty-mentored &quot;casual&quot; journal club meeting. Held block 2 of every fall semester in the program. Students should attend throughout their time in the program.</td>
</tr>
<tr>
<td>CELL 694R</td>
<td>Research Presentation</td>
<td>4</td>
<td>0.5 credits per fall/winter semester; to be taken every semester in the program.</td>
</tr>
<tr>
<td>CELL 696R</td>
<td>Graduate Seminar</td>
<td>4</td>
<td>0.5 credits per fall/winter semester; to be taken every semester in the program.</td>
</tr>
<tr>
<td>CELL 799R</td>
<td>Doctoral Dissertation</td>
<td>18#</td>
<td>Credit for work on the dissertation and Defense</td>
</tr>
</tbody>
</table>

**State of the Field:** Department Faculty Modules or Interdisciplinary Courses (electives) 10  Minimum of 6 credits (2-3 modules) of CELL State of the Field modules required; the remaining 4 credits can be CELL modules or other graduate courses offered across campus.

**Total Credits:** 59

#Research credit (CELL 649R & 799R) may not exceed 27 hours.
## F. Suggested Coursework Map for CELL Grad. Programs

<table>
<thead>
<tr>
<th></th>
<th><strong>MS</strong></th>
<th><strong>PhD</strong></th>
</tr>
</thead>
</table>
| **Fall Semester (9 CH)** | CELL 510: Scientific Communication (1)  
CELL 649R: Laboratory Research (2)  
CELL 660: Graduate Cell Biology (3)  
CELL 692R: Current Science Discussions (1)  
CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
Electives or missing prerequisites (2)  
Funding: TA (if available)  
File Program of Study | CELL 510: Scientific Communication (1)  
CELL 649R: Laboratory Research (2)  
CELL 660: Graduate Cell Biology (3)  
CELL 692R: Current Science Discussions (1)  
CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
Electives or missing prerequisites (2)  
Funding: RA |
| **Winter Semester (8 CH)** | CELL 570: Responsible Conduct of Research (1)  
CELL 649R: Laboratory Research (2)  
CELL 662: Graduate Physiology (3)  
CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
Electives (2)  
Funding: TA (if available)  
File Research Proposal | CELL 570: Responsible Conduct of Research (1)  
CELL 649R: Laboratory Research (2)  
CELL 662: Graduate Physiology (3)  
CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
Electives (2)  
Funding: TA (prep for future teaching practicum)  
File Program of Study |
| **Spring/Summer (2 CH)** | CELL 699R: Masters Thesis (2)  
Funding: RA from Lab (where available) | CELL 649R: Laboratory Research (2)  
Funding: RA |
| **Fall Semester (9 CH)** | CELL 692R: Scientific Readings (1)  
CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
CELL 699R: Masters Thesis (2)  
PWS 633: Statistics (3)  
Electives (2)  
Funding: TA (if available) | CELL 689R: Practicum in LS Teaching (2)  
CELL 692R: Scientific Readings (1)  
CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
PWS 633: Statistics (3)  
Electives (4)  
Funding: RA  
Qualifying Exam: Complete and File Dissertation Proposal |
| **Winter Semester (3 CH)** | CELL 692R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
CELL 699R: Masters Thesis (2)  
Funding: RA  
Defend Thesis | CELL 694R: Research Presentation (0.5)  
CELL 696R: Graduate Seminar (0.5)  
CELL 799R: Doctoral Dissertation (2)  
Electives (2)  
Funding: RA |
| **Spring/Summer (2 CH)** | CELL 799R: Doctoral Dissertation (2)  
Qualifying Exam: Comprehensive Knowledge Examination | |
### III. CONTINUING EXPECTATIONS AND REQUIREMENTS

#### i. Satisfactory Progress

A graduate program is a full-time commitment. It is expected that each student will demonstrate satisfactory progress toward the degree. This includes meeting university minimums for GPA (3.0) and making timely progress in the program steps outlined below. It is also expected that the graduate student will meet with their Advisory Committee at least twice per year (Fall and Winter Semesters) to assess progress in the Program of Study and thesis/dissertation research (see section IV.B.3). Students should also display a cooperative attitude and adhere to the university’s standards of conduct. It is expected that all students will maintain academic honesty as defined in the University Honor code (online at http://honorcode.byu.edu/index.php?option=com_content&task=view&id=5302&Itemid=5698.)

**Performance Evaluation**

To meet federal and university requirements, departments evaluate academic performance of graduate students twice annually. Three categories can be reported: **Satisfactory, Marginal, and Unsatisfactory.** Students who have been given a **Marginal** or **Unsatisfactory** evaluation will be notified in writing explaining the evaluation and expectations for satisfactory progress. **Graduate students with a current Unsatisfactory evaluation are not eligible to receive federal aid.** The university will automatically terminate any student that receives two sequential evaluations that are less than **Satisfactory.** Evaluation Form

---

**Subsequent Fall Semesters (5 CH)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELL 692R</td>
<td>Scientific Readings (1)</td>
<td></td>
</tr>
<tr>
<td>CELL 694R</td>
<td>Research Presentation (0.5)</td>
<td></td>
</tr>
<tr>
<td>CELL 696R</td>
<td>Graduate Seminar (0.5)</td>
<td></td>
</tr>
<tr>
<td>CELL 799R</td>
<td>Doctoral Dissertation (3)</td>
<td></td>
</tr>
<tr>
<td>Funding</td>
<td>RA (unless TA is desired)</td>
<td></td>
</tr>
</tbody>
</table>

**Subsequent Winter Semesters (4 CH)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELL 694R</td>
<td>Research Presentation (0.5)</td>
<td></td>
</tr>
<tr>
<td>CELL 696R</td>
<td>Graduate Seminar (0.5)</td>
<td></td>
</tr>
<tr>
<td>CELL 799R</td>
<td>Doctoral Dissertation (3)</td>
<td></td>
</tr>
<tr>
<td>Funding</td>
<td>RA (unless TA is desired)</td>
<td></td>
</tr>
</tbody>
</table>

**Subsequent Spring/Summer (2 CH)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELL 799R</td>
<td>Doctoral Dissertation (2)</td>
<td></td>
</tr>
</tbody>
</table>

*TA=Teaching Asst., RA=Research Asst.
Course Offerings: https://gradstudies.byu.edu/courses
D-6 must be filed at the end of each fall and winter semesters.

**Grievance Procedures**
Students that feel they have been unfairly treated or evaluated, may appeal to the Departmental Graduate Committee, then to the Department Chair and finally to the Dean of Graduate Studies.

**ii. Research Project**
All graduate students are expected to complete a significant and publishable research project.

**Selection of Research Project**
The student is expected to originate and plan their own specific research project that will be acceptable to their Advisory Committee. This is done by coordinating with your Research Advisor. If the student’s interests are not commensurate with the capabilities, interests, and funding of their advisor, they should select another advisor or change their research plan as necessary.

**MS Program**
Students in the MS program will work with their Research Advisor to select a research project that is significant and appropriate in scope for a masters thesis. After selecting a research project, the student will meet and discuss the project with their Advisory Committee. With their approval, the student then files the Approval of Research Proposal form for approval at https://gradprogress.sim.byu.edu/. This should be done by the end of the 2nd semester at the latest.

**PhD Program**
Students in the PhD program will work with their Research Advisor to develop a research project that is significant and appropriate in scope for a doctoral dissertation. After selecting the project, the student will prepare for and pass the Qualifying Exam, as described below in section III.C. An Approval of Research Proposal form must then be filed with the Department. After filing, students become eligible for additional types of financial assistance, as described in section II.F.

If the student’s research emphasis changes more than in a minor way after a proposal is approved, the student must submit a new approved proposal to the Department as soon as possible, and no later than one semester after the original due date.

**Periodic Review of Research**
Periodic meetings with your Advisory Committee should be held at least twice each year. In these meetings research progress and/or difficulties should be
presented and discussed. Between meetings, any member of the Advisory Committee can be consulted for help regarding the research project; however, most detailed problems should usually be worked out with your Research Advisor.

**iii. Examinations**

**MS Program**

a) **Oral Defense of Thesis**

Each student must defend his/her thesis before their Advisory Committee in a public seminar (can be in lieu of the required yearly seminar). At [http://gradprogress.sim.byu.edu](http://gradprogress.sim.byu.edu) select “Ready for Defense”. **A minimum of 2 weeks prior to the Presentation of Thesis—No Exceptions! Submit thesis in final form** with complete data, graphs, and content to the same link (See Graduate Program Manager for complete list of dates and steps). At that time it is expected that the Advisory Committee will be have already been involved in reviewing the thesis (see section D below), and that the members of the Advisory Committee and the student will have resolved matters of thesis content, format, sentence structure, table and figure organization, etc. Although the thesis presentation is open to the public, only members of the Advisory Committee may vote on the student’s performance.

**PhD Program**

a) **Qualifying Examination**

Students in the Ph.D. program must pass the qualifying examination in order to advance to Ph.D. candidacy. The purpose of this exam is to assess the student’s capability in conducting graduate research within their specific field and to obtain Advisory Committee approval to proceed with their research project. This approval is an official statement by the department that completion of the proposed project will be sufficient for a dissertation. The proposal should demonstrate that the graduate student (1) understands current literature in the field of research, (2) has selected a research project that is significant and appropriate in scope, and (3) has sufficient training and resources to appropriately perform and analyze the experiments. This exam consists of two parts, a written dissertation research proposal and an oral defense of the dissertation proposal.

**WRITTEN DISSERTATION PROPOSAL:** The written proposal should be prepared as a NIH NRSA F31 fellowship proposal (or equivalent, as determined by the student’s Advisory Committee. NRSA F31 fellowships are 6 pages single spaced, not including references, 0.5 in. margins, 11-point Arial font). Preliminary data is not required. The student should begin working with their mentor to define a project as soon as possible after a
mentor and lab have been identified. This proposal is the student’s work, not that of the student’s Research Advisor. **Although students may seek input on their proposal from others, they must write the entire document.** Faculty advisors may read, discuss and suggest edits for grammar, spelling, clarity and style, but may not prepare de novo any part of the document. The finalized proposal should be submitted to the student’s Advisory Committee and the department Graduate Coordinator in final form at least **2 weeks prior to the oral defense.** The proposal should then be submitted to the NIH or other granting agency unless the student is not eligible to do so (e.g., non-US citizen, etc).

**ORAL DEFENSE OF DISSERTATION PROPOSAL:** This meeting will be scheduled and conducted by the student’s Research Advisor. The student will give a 20-30 minute oral presentation of their proposed research to their Advisory Committee and a representative from the department Graduate Committee who is not part of the regular Advisory Committee. The student will then field questions from their Advisory Committee and the Graduate Committee representative regarding the proposed work and general scientific knowledge relevant to the proposal’s field of research. **Students should complete this portion of the exam before the end of the fall semester of their 2nd year in the program.** This meeting should last no more than 3 hours.

Once the oral defense of proposal is passed, a final copy (with content revisions if requested by the committee), of the proposal should be submitted to [http://gradprogress.sim.byu.edu](http://gradprogress.sim.byu.edu). It is due by the end of the third semester in the program for PhD students. Students who have not filed on time lose priority for departmental funding, may be dismissed if more than one semester late, and will receive a University Marginal on their progress review.

**b) Comprehensive Knowledge Examination**

The purpose of this examination is to assess the student’s understanding of and ability to communicate the basic, broad principles of cell biology and physiology. It consists of a written and oral component. Both portions are scheduled and conducted by the department Graduate Committee.

**WRITTEN COMPREHENSIVE EXAM:** The written comprehensive exam will be held during the spring term at the end of the student’s 2nd year in the program on a date scheduled by the Graduate Committee. The exam is a 4-hour closed-book exam in which the student will answer 4
essay questions. The student will choose 2 of 3 available questions from the core courses (Cell Biology and Physiology) and 2 of 3 available questions from other related areas, such as Biochemistry, Genetics, Molecular Biology, etc. Grading of the exam will be pass/fail, and will be performed by a committee consisting of the professors who wrote the selected questions and two representatives from the department graduate committee. Each examiner is to evaluate on total performance and not merely on those questions which he/she asks.

ORAL COMPREHENSIVE EXAM: The comprehensive oral exam will be held 2-3 weeks after the comprehensive written exam. It is a 1 to 2-hour closed-book examination which will consist of oral questioning of the student by an examination committee consisting of two Graduate Committee members and two other graduate faculty. Questions will be asked on any topics relevant to the student's research and/or cell biology and physiology as it pertains to the project.

Upon satisfactory completion of both examinations, the Chair submits form D-3 “Evaluation of Examination” to the Department Graduate Program Manager.

c) Dissertation Defense
Each student must defend his/her dissertation before their Advisory Committee in a public seminar (can be in lieu of the required yearly seminar). At [http://gradprogress.sim.byu.edu](http://gradprogress.sim.byu.edu) select “Ready for Defense”. The written dissertation must be provided a minimum of 2 weeks prior to the Dissertation Defense (no exceptions!) This should be a final version with complete data, graphs, and content, and is submitted to the same link (See Graduate Program Manager for complete list of dates and steps). At that time it is expected that the Advisory Committee will be have already been involved in reviewing the dissertation, and that the members of the Advisory Committee and the student will have resolved matters of dissertation content, format, sentence structure, table and figure organization, etc. Although the dissertation presentation is open to the public, only members of the Advisory Committee may vote on the student's performance.

### iv. Thesis/Dissertation

It is strongly recommended that writing of the Thesis/Dissertation begin at least 4-6 months in advance of graduation since it frequently requires more time than anticipated. Typically, the proposal forms the basis for the introduction section of the Thesis/Dissertation. The exact content of the Thesis/Dissertation is set at the
discretion of the student’s Advisory Committee, but University, College and Departmental guidelines listed below must be followed. The final responsibility for compliance with all regulations for thesis/dissertation preparation rests solely with the graduate student.

Format Requirements

Exact requirement for format are set by the university and described in: “Minimum Standards for Submitting Dissertations, Theses, or Selected Projects.” This guide can be obtained from The Department Graduate Program Manager or online at: https://gradstudies.byu.edu/page/forms-list. The following are additional Departmental guidelines.

a) All university required pages are single-sided; the remainder of the work is to be double-sided. A current curriculum vitae should be appended to the end (double-sided).

b) Typically four sections (single-sided) should follow the Abstract and be numbered with lowercase Roman numerals: Acknowledgements (may include grant support), Table of Contents, List of Tables, and List of Figures. These last three sections may follow the format used in this document (page 2) but should be double-spaced. Most word processors have built-in features for creating such tables automatically.

c) An approved style guide for the Department needs to be followed, which is according to the writing style in the latest edition of the CBE Style Manual. Alternatively, if sections of the thesis/dissertation have been (or are going to be) submitted for publication in a refereed journal, the journal’s format for submitted manuscripts may be followed.

Review and Approval

Meet with the Department Graduate Program Manager for a list of all submission steps.

a) Schedule Defense with the Department Graduate Program Manager. This must be completed a minimum of two weeks prior to your examination and within the University time limit.

b) Submit an electronic copy of your thesis/dissertation (including all ancillary pages), a curriculum vitae, and a copy of an example of a recent reprint from your preferred journal (if thesis/dissertation is in manuscript format) to http://gradprogress.sim.byu.edu for review by each member of your Advisory Committee. Email a copy of the same to the Graduate Program Manager. This must be completed a minimum of two weeks prior to your defense.

c) The first part of the examination will be a presentation of your research and will be open to all interested individuals. The second part will be an examination of your research and your thesis/dissertation by the faculty
members in attendance. The final voting will be done ONLY by members of the Advisory Committee (as described above in section IV.C.1.a).

d) After working on formatting revisions and final changes, submit an electronic copy of the thesis/dissertation in final form to the Department GPM.

e) Submit a request for bound copies. See GPM.

f) PhD students complete Survey of Earned Doctorate. Forward receipt to GPM.

g) Complete an Exit Interview with Department Chair. Schedule with GPM

v. Program Deadlines

Plan to finish each step before the absolute deadline. Do not count on holding any committee meeting or examination at a time when school is not in session (including Reading Days). It is the responsibility of the student to make sure the committee members will be available.

<table>
<thead>
<tr>
<th>MS Students</th>
<th>Event</th>
<th>Due Date</th>
<th>Form*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisory Committee Selection and Program of Study</td>
<td>End of first semester</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>Thesis research plan presented to Advisory Committee</td>
<td>End of second semester</td>
<td>D-1</td>
<td></td>
</tr>
<tr>
<td>Application for graduation</td>
<td>Before department/college/university deadline</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>Scheduling of thesis defense and submission of thesis to department</td>
<td>At least 2 weeks before thesis defense</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>Thesis defense</td>
<td>Before department/college/university deadline</td>
<td>See GPM</td>
<td></td>
</tr>
<tr>
<td>Submission of final thesis</td>
<td>Before department/college/university deadline</td>
<td>Gradprog</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PhD Students</th>
<th>Event</th>
<th>Due Date</th>
<th>Form*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisory Committee Selection and Program of Study</td>
<td>End of third semester</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>Qualifying Examination</td>
<td>End of third semester</td>
<td>D-1</td>
<td></td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td>Spring following 4th semester</td>
<td>D-3</td>
<td></td>
</tr>
<tr>
<td>Application for Graduation</td>
<td>Before department/college/university deadline</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>Scheduling of dissertation Defense and submission of dissertation to department for reading</td>
<td>Before department/college/university deadline</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>Dissertation Defense</td>
<td>Before department/college/university deadline</td>
<td>See GPM</td>
<td></td>
</tr>
<tr>
<td>Final dissertation to Graduate Program Manager</td>
<td>Before department/college/university deadline</td>
<td>Gradprog</td>
<td></td>
</tr>
<tr>
<td>ETD</td>
<td>Before department/college/university deadline</td>
<td>Gradprog-8d</td>
<td></td>
</tr>
<tr>
<td>Doctoral Survey &amp; UMI</td>
<td>Before department/college/university deadline</td>
<td>Gradprog</td>
<td></td>
</tr>
</tbody>
</table>

*Gradprog = Online  D = Department form (available from Dept. Grad Program Manager)
Student Health Resources

Many resources are available to help students manage health concerns that may arise. These resources include, but are not limited to, the following:

Student Health Center: 1750 N. Wymount Terrace Dr., Provo. 801-422-2771

University Accessibility Center: 2170 WSC. uac.byu.edu

Counseling & Psychological Services: 1500 WSC. caps.byu.edu
  Counseling and Group Therapy
  Biofeedback Services
  Stress Management

Title IX: 1085 WSC. titleix.byu.edu
  Domestic/Dating Violence or Assault

Crisis Resources:
  Univ. Police: 801-422-2222
  Utah County Crisis Line: 801-691-5433
  Text Line: Text HOME to 741741
  help.byu.edu

IV. SAMPLE FORMS

A. University Forms (available online)
The following university forms are available from the Dept Graduate Program Manager and may also be printed online at: https://gradstudies.byu.edu/page/form-list.

B. Departmental Forms
Examples of departmental forms are included on the following pages. They are available from the Department Graduate Program Manager.
APPROVAL OF RESEARCH PROPOSAL

Name of Student

Date Approved

Research Advisor

Committee Member

Committee Member

Committee Member

Committee Member
EVALUATION OF COMPREHENSIVE EXAMINATION

Name of Student: __________________________ Date of Exam: ________________

Major Field: __________________________ Research Advisor: __________________

Recommended Action:

1. [ ] Pass Without Qualification. Comments, if any:

2. [ ] Pass With Qualification. List in detail any qualification imposed upon the student: Retake date ______ (one time only)

3. [ ] Not Pass but allow retake. List in detail any qualification imposed upon the student: Retake date ______ (one time only)

4. [ ] Fail. Terminate from program.

________________________________________
Research Advisor

________________________________________  _________________________
Committee Member  Committee Member

________________________________________  _________________________
Committee Member  Committee Member

________________________________________  _________________________
APPLICATION FOR 699-799 FUNDS

Name of Student: ___________________________ Date Submitted: ________________

Program: □ MS □ Ph.D. Phone: ________________
Email: ____________________

Prospectus is on file in the CELL Department Office: □ Yes □ No

Course Outline is on file in the Graduate School Office: □ Yes □ No

Research Title: _______________________________________
_____________________________________________________
_____________________________________________________

What percent of your data collection is completed? ___________________________

What percent of your thesis/dissertation writing is completed? _______________________

When do you plan to graduate? __________________________________________

Total amount requested: __________________________________________

Please itemize your specific budget requests:
______________________________________________________________
______________________________________________________________
______________________________________________________________
______________________________________________________________

Research Advisor: ___________________________ ___________________________
(Print) (Signature)

Total amount awarded: ___________________________

Authorized Signature: ___________________________ Date: ________________
REQUEST FOR STUDENT TRAVEL
Please Submit to Your Committee Chair

Name of Student: ____________________________ Date: ____________
Email address: ____________________________ Phone number: _______________
Name of conference or appropriate activity: __________________________________________

________________________________________________________
Destination: ____________________________________________

Dates of travel: __________________________________________

Departmental Account (for office use): ____________________________

Cost Sharing Account: _______________________________________

If graduate student, have you filed your prospectus?  □ Yes  □ No

Title and author(s) of paper to be presented or justification of how this travel will enhance your professional development (please use reverse side of paper if needed):


<table>
<thead>
<tr>
<th>Budget</th>
<th>Projected Cost</th>
<th>Actual Cost (office use only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Far</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Car Rental</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To/From airport</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Pool Vehicle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal Vehicle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lodging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Research Advisor: ____________________________________________
(Print)  (Signature)

Signature of Departmental Travel Coordinator: ________________________ Date: ____________
MS GRADUATE PROGRESS REVIEW

Name of Student: __________________________ Date: __________
Program Start Date: ______________________ Anticipated Graduation Date: ________

PART I. To be completed by the student prior to the Progress Review Meeting and then submitted to the Advisory Committee at the time of the Review Meeting. Reviews are to be held a minimum of twice per year (every 5-7 months).

A. Program Progress
1. Under your current semester of enrollment, indicate the date of completion for program requirements. All requirements should be completed by the semester indicated with an unshaded (recommended) or lightly shaded (acceptable) box.

<table>
<thead>
<tr>
<th>Semester</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th +</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Enrollment (due each semester)</td>
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<tr>
<td>Program of Study (due by the end of the 1st semester)</td>
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<tr>
<td>Research Plan Approval</td>
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</table>

2. For any unshaded item not completed during your current semester of enrollment, indicate the expected completion date (should be within 30 days of the review meeting).

3. If you were accepted on a provisional basis, have you completed the provisions?

4. Current program credit hours completed and GPA:

B. Current Performance
In the last 6 months:

<table>
<thead>
<tr>
<th>Hours/week of research-related activity</th>
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1. Research obstacles and accomplishments

2. Goals for the next 6 months

(Committee completes Part II on back)
**Part II**
To be completed by the Committee Chair following the Review, signed by the Advisory Committee, and submitted by the Chair to the Graduate Coordinator. A member of the Department Graduate Committee should be present at the Review Meeting at least once per year.

Was marginal or unsatisfactory progress determined in the previous progress review? □ Yes □ No
If so, have the associated stipulations (Part III) been appropriately addressed? □ Yes □ No

The Committee Recommendation:
- □ Satisfactory progress, continuance in the graduate program
- □ Departmental marginal progress (30 days to rectify or status will change to “University Marginal”) See below Part III
- □ University marginal progress
- □ University unsatisfactory progress

Signatures:

<table>
<thead>
<tr>
<th>Research Advisor</th>
<th>Date</th>
<th>Member</th>
<th>Date</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Member</td>
<td>Date</td>
<td>Member</td>
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Did a member of the Department Graduate Committee attend this meeting? □ Yes □ No

**PART III**
If the recommendation is marginal or unsatisfactory the committee should list below the actions that need to be taken by the student to remedy the issues and to make it likely that a satisfactory evaluation will be obtained within 30 days or at the next progress review, as applicable. Be specific and include required date(s) required for completion of the criteria. Be aware that two sequential unacceptable (university marginal or unsatisfactory) ratings will result in termination from the program. If the recommendation is “Satisfactory” the committee should list 1-2 focus areas for continued improvement.

I agree with the terms described above.

Signature of Graduate Student’s Advisor | Date
---|---

Signature of Graduate Student | Date
PhD GRADUATE PROGRESS REVIEW

Name of Student: ___________________________  Date: __________
Program Start Date: _______________________  Anticipated Graduation Date: _________

PART I. To be completed by the student prior to the Progress Review Meeting and then submitted to the Advisory Committee at the time of the Review Meeting. Reviews are to be held a minimum of twice per year (every 5-7 months).

C. Program Progress
1. Under your current semester of enrollment, indicate the date of completion for program requirements. All requirements should be completed by the semester indicated with an unshaded (recommended) or lightly shaded (acceptable) box.

<table>
<thead>
<tr>
<th>Semester</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th +</th>
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<td>Research Proposal Approval (due 3rd semester)</td>
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<tr>
<td>Comprehensive Exam (held Spring Term after 4th semester)</td>
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I agree with the terms described above.

Signature of Graduate Student’s Advisor: ___________________________ Date: __________

Signature of Graduate Student: ___________________________ Date: __________