



MS in Biomedical Sciences

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June 29, 2023

MS-BMS Course Descriptions

BIO 501 – Graduate Study (3 credits)

Effective sourcing, use, and interpretation of the literature. Scientific methodology, writing, and review of research ethics. Development of a research plan. Prerequisite: graduate standing.

BIO 534 – Advanced Data Analysis (3 credits)

Data analysis is an extremely crucial component of any scientific discipline, but proper data analysis in the environmental sciences is particularly vital. Scientific observations of the natural world are inherently fraught with complexity, variability, and a high degree of uncertainty. Consequently, effective statistical analyses must be applied with a thorough understanding of the pros and cons of each approach. This course aims to provide you with a broad overview of both traditional and modern statistical approaches commonly used to address the special needs of ecological data sets.

BIO 509 – Biomedical Sciences (2 credits)

Typical topics include discussions of translational medicine, evidence-based clinical practices, US and global healthcare systems, US and global health disparities, biomedical informatics, biomedical ethics, professionalism and interview skills, test prep strategies, medical communication, and others.

BIO 510 – Current Issues in Biomedical Sciences (1 credit per term*)

*Students must take BIO 510 in 3 different quarters, for a total of 3 credit hours

Students will discuss weekly student and faculty speakers, primary literature, and Ted Talks. This course is designed to expose students to a number of scientific research areas. In this course, students learn about current issues in science, critically evaluate primary literature and scientific presentations, and present research to their peers.

BIO 595 – Graduate Research/Thesis (2 credits per term*)

*Students must take BIO 595 in 5 different quarters, for a total of 10 credit hours. Prerequisite: BIO 501.

This course is required for the Master of Science degree in Natural Resources or Biomedical Science. The purpose of these courses is to complete thesis. Based upon the thesis proposal and thesis work completed in Graduate Studies, students should be undertaking this class to complete their thesis research and writing as well defending their theses.

BIO 596 – Capstone (3 credits)

This is a semi-independent or directed-study course wherein the student completes a final original research project for the MS degree in Biomedical Sciences. This capstone project culminates the MS program and helps you to transition into the role of an academic scholar as well as a professional in your field. At the undergraduate level, students “consume” ideas and knowledge, but this aspect of the graduate experience fosters a stronger level of self-direction through the process of academic research/scholarship. As you work through the entire process

of planning a study, collecting the data, analyzing the data to comprehend its meaning, and presenting it to colleagues, you move from consumer to creator of new knowledge. Students present the entire study at the final class meeting. Your academic mentor will provide additional guidance and feedback through this phase of the study. Students will submit rough drafts of the project components throughout the term to the mentor as well as the course professor. The culminating product is the complete written report of the investigation and a formal presentation on the project to a professional audience of faculty mentors, the course professor and other peers. Students are expected to be able to answer questions about their research and engage in professional dialogue about the topic during the formal presentation.

STAT 505: Biostatistics I (3 credits)

This course focuses on the use of statistics and application of statistical methods to data most often seen by medical practitioners and researchers. This course discusses the collection and analysis of public health and health care data. Elements of statistical inference, probability distributions, sampling, confidence intervals, and estimation of means and rates are reviewed with emphasis on application and critical interpretation of the results.

STAT 510: Epidemiology I (3 credits)

This course discusses the principles of epidemiology and the measures used in epidemiology, epidemiologic study design and analysis, and other topics that are important to an understanding of epidemiology.

WRI 521: Writing at the Grad Level (3 credits)

Focuses on developing professional-level writing skills to produce a master's thesis/project documentation. Includes structure, methodology, and emphasizes adherence to OIT manual and appropriate reference style. By the end of term, students will have written a detailed prospectus and literature review.

WRI 510: Grant Proposal Writing (3 credits)

This course provides theory and skills in proposal writing for seeking funding from public and private agencies and for preparing proposals in business and industrial settings. Focuses on the process of preparing proposals, including analyzing audiences, conducting research, organizing, writing, and editing.

ALH 510: The Science of Evidence-Based Medicine (3 credits)

Modern health practices often claim that they are "evidence based", but sometimes the quality of the evidence isn't as good as one would hope. This course looks at a variety of medical and health issues and evaluates the reliability of the evidence. Topics include menopausal hormone replacement therapy, screening for breast, prostate, thyroid and colon cancer, and nutritional/dietary recommendations.

ALH 515: Scientific Writing and Healthcare Leadership Literature Review (3 credits)

A large focus of this class is reading and interpreting scholarly literature related to healthcare leadership. In addition, students will be learning to write using instructor led professional and scientific methods.

ALH 545: Pertinent Ethical and Legal Considerations for Healthcare Leaders (3 credits)

Common real-life healthcare ethical cases will be presented and discussed in this class with a focus on the role of a healthcare leader in handling difficult ethical situations. Healthcare legalities will be considered to help with liability and malpractice, etc.

ALH 565: Population Health Issues for Healthcare Professionals (3 credits)

Population health issues and needs will be discussed in all aspects particularly as it applied to healthcare leadership.

ALH 585: Financial Considerations and Political Strategies for Healthcare Leaders (3 credits)

Students will learn the best practices in healthcare finances including health care policies and funding sources. The emphasis will be to teach students how to incorporate successful financial models into their own healthcare organizations. Discussions will take place to include the best practices in using political models and strategies related to demand and supply within healthcare settings. Prerequisite: Admission to MS MAH program

BIO 507 - Drug Development (1 credit)

This course will explore the viral domain, and compare strategies that different viruses employ during their “life” cycle. Learn about mechanisms of infection and transmission utilized by different families of human viruses, and how these compare to examples of bacteriophage, plant viruses and insect viruses. The emphasis will be on those “abnormal” aspects of the molecular and cellular biology of viruses, not necessarily the clinical presentation of disease.

BIO 522 - Neuroscience (3 credits)

Neuroscience covers the organization and function of the human nervous system with cutting edge of neuroscience. The goal of this course is to build a strong base of general knowledge in neurobiology of such topic as sensory and motor systems, the brain and behavior, the cellular and molecular basis of brain development, and learning and memory.

BIO 526 - Evolutionary Biology (3 credits)

An overview of evolutionary biology as the discipline uniting all of the life sciences. Reading and discussion of scientific papers to explore the dynamic aspects of evolutionary biology. Principles of population genetics, paleontology, and systematics; application of evolutionary thinking in disciplines such as developmental biology, ecology, microbiology, molecular biology, and human medicine.

BIO 527 – Special topics in neuroscience (1 credit)

This course provides graduate students with an opportunity to explore, in depth, a variety of contemporary topics in neuroscience. Lectures will present background material and address current problems in the area related to the topic. Students will read and discuss review articles and current literature on the topic. This course also consists of exciting anatomical dissections of the brain and spinal cord.

BIO 536 - Immunology (4 credits)

Current topics in cellular and humoral immunology including innate immunity, acquired immunity, antibodies, anatomy of immune response, production of effectors, adversarial strategies during infection, immunodeficiency, and transplantation.

BIO 541 - Genetic Engineering & Therapy (1 credit)

Current topics in genetic engineering and gene therapy, explored via selected readings from primary and secondary literature.

BIO 542 - Cell Biology (4 credits)

This course will cover more in-depth topics involving: cell structure and function, protein sorting, cell signaling.

BIO 544 - Biological Physics (3 credits)

Principles of physics as applied to biological systems. Biological systems are incredibly complex! Yet they are made of the same atoms and obey the same physical laws as everything else in the universe. Interdisciplinary research in biophysics has proved enormously fruitful to both biology and physics.

BIO 545 - Virology (3 credits)

Compare strategies that viruses employ during their “life” cycle. Learn about mechanisms of infection and transmission utilized by different families of viruses, with an emphasis on those “abnormal” aspects of the molecular and cellular biology viruses utilize.

BIO 546 - Pathophysiology I (3 credits)

Study of the dynamic aspects of the disease process with emphasis on abnormal physiology. Detailed discussion of cellular alterations, normal and abnormal immunology, neoplasia, inflammation, arteriosclerosis, hypertension, cardiac and vascular diseases.

BIO 547 - Pathophysiology II (3 credits)

Study of the dynamic aspects of the disease process with emphasis on abnormal physiology. Detailed discussion of alterations of respiratory function, liver and digestive system, neurologic, urinary, musculoskeletal disorders, and Diabetes Mellitus.

BIO 552 - Developmental Biology (3 credits)

This course will explore the developmental processes of selected invertebrate and vertebrate groups. The event of gametogenesis, fertilization, gastrulation, neurulation, and post-embryonic development will be discussed. The role of differential gene expression in developmental pathways will be covered.

BIO 554 - Environmental Health (3 credits)

A multidisciplinary exploration of Environmental Health across scales from local to global including the history of public health and infrastructure and linkages between air and water

quality, environmental psychology, environmental justice, epidemiology, toxicology, food production, waste, genetics, and climate change.

BIO 561 - Human Cadaver Dissection I-III (1 credit per term; available multiple terms)
Study of human anatomy utilizing cadaver dissection. Attention will be given to three-dimensional relationships of structures, appreciation of textural differences, and development of palpation skills. Recognition of pathologic abnormalities and individual variations will be investigated.

BIO 567 - Biomedical Devices (3 credits)
Exploration of pathophysiology, design thinking and how they have been applied to restore bodily functions. Topics covered include the cardiovascular system, bones, brain, eyes, ears, and skin.

BIO 597 - Biomedical Internship (1-5 credits)
An internship or shadowing course provides students with structured experience in an organization whereby they can apply the knowledge and skills acquired in the classroom and extend them to a professional work environment. The experience also provides the opportunity for the student to gain new career-oriented knowledge, skills, and perspectives in a relevant career field. The internship or shadowing experience provides the opportunity to master career-related competencies not available in the classroom setting as they assume the responsibilities of being an integral team member in a workplace in their chosen field.

CHE 505 - Nanoscience & Nanotech (4 credits)
Chemical and physical phenomena as applied to nanoscale materials, including metal and semiconductor nanoparticles and carbon nanostructures. Discussion of major synthesis and characterization techniques. Biological and engineering applications of nanoscale materials.

CHE 535 - Bioorganic Chemistry (4 credits)
Organic chemistry mechanisms that occur in mammalian metabolism with a focus on molecular structure and reactivity of biological molecules and metabolites.

CHE 550 - Biochemistry I (4 credits)
Molecular and cellular biochemistry with emphasis on DNA, RNA, regulation of DNA and RNA processes in cells, and on analyzing, constructing, and cloning DNA.

CHE 551 - Biochemistry II (4 credits)
Molecular biochemistry with emphasis on protein conformation and function, mechanisms of enzyme action and control, and energy production via glycolysis.

CHE 552 - Biochemistry III (4 credits)
Molecular and cellular biochemistry with emphasis on cell membranes, lipid metabolism, aerobic energy metabolism, anabolism, and the role of biochemistry in cellular signaling processes.

CHE 565 - Fate and Transport of Pollutants (4 credits)

Mass balance. The use of equilibrium and chemical kinetics in the modeling of pollutant transport in water, soil, and air. Mixing zone analysis, the use of Darcy's law, flow nets, and the Gaussian Plume approximation. Discussion, development and use of selected modeling scenarios.



Proposal for a New Academic Program

Institution: Oregon Institute of Technology

College/School: College of Health, Arts, and Sciences

Department/Program Name: Natural Sciences

Degree and Program Title: MS in Biomedical Sciences

1. Program Description

- a. Proposed Classification of Instructional Programs (CIP) number: **26.0102**
- b. Brief overview (1-2 paragraphs) of the proposed program, including its disciplinary foundations and connections; program objectives; programmatic focus; degree, certificate, minor, and concentrations offered.

The Natural Sciences (NSC) department at Oregon Tech seeks to create a Master's of Science in Biomedical Sciences (MS-BMS) degree program to complement the existing Bachelor of Science in Biology-Health Sciences (BS-BHS) undergraduate program, which is tailored to prepare students for entry into professional graduate programs in the health sciences. We envision two tracks: a course-based, non-thesis track, as well as a thesis-based track integrating laboratory research experience. Each track would consist of 45 graduate-level credits; the non-thesis track could be completed in as few as three 15-credit quarters, while the thesis-based track would typically require two years to complete. With minimal additional investments, we can leverage the NSC department's existing faculty and resources to provide valuable additional opportunities for our existing BS-BHS students, as well as for incoming post-baccalaureate students with degrees from other institutions.

Firstly, a 1-year coursework-based master's degree track allows the department to offer an intensive set of biomedically-oriented courses to incoming post-baccalaureate students from other institutions, as well as to students from other Oregon Tech programs. These students may be looking to return to school after a period of employment or looking for "gap year" preparation for application to professional schools. As noted below, we are already well situated to offer numerous graduate-level courses with our existing faculty and infrastructure in this model.

Secondly, a 2-year thesis-based master's degree track integrating laboratory research experience would significantly expand the opportunities for our existing BS-BHS students (via a "3+2" model), as well as attracting external post-baccalaureate students (via a standalone 2-year program). Though our existing BS-BHS students have an excellent track record in admission to graduate professional health programs of their choice, our department has less history in offering laboratory research experiences to students to prepare them for application to MS or PhD graduate school programs or post-baccalaureate employment in the biomedical sciences.

These two tracks will both benefit from the existing faculty and facilities that already serve our Biology-Health Sciences program, which is tailored to prepare students for entry into careers in the health sciences disciplines and careers. The master's program focus and objectives include (1) promoting a deep and integrated understanding of the biological sciences and their implication to the advancement of health and biomedical science, (2) strengthening critical analysis and reasoning skills and the application of these skills in a manner relevant to the biomedical sciences, (3) generating and effectively communicating scientific knowledge relevant to the biomedical sciences, (4) developing a commitment to life-long learning and career pursuits within the discipline, (5) fostering a commitment to health equity, and (6) demonstrating the ability to competently conduct ethical reasoning in the discipline.

c. Course of study – proposed curriculum, including course numbers, titles, credit hours.

Curriculum

The MS-BMS degree requires the completion of 45 graduate-level (listed at 500+) credits in both the thesis and non-thesis tracks. (To provide some flexibility, up to 12 credits of the 45 will be accepted at the 400 level). Students must maintain a 3.0 graduate-level GPA with a final grade of "C" or better in all graduate courses. The electives are in a two-year rotation as cross listed courses. Graduate students would be in some 400/500 level classes alongside undergraduates but would have additional requirements from their undergraduate peers. While requirements would vary with course and instructor, additional graduate requirements would include:

- Additional or more complex project work
 - Additional readings and assignments on more advanced topics
 - Additional or more advanced data analysis, mapping, and/or communication
 - Mentoring of undergraduates
-
- The **thesis-based BMS** degree track consists of **21 credits of core classes** (including **10 credits of research/thesis work**) and **24 credits of elective courses**. Thesis-based master's students will typically be either Teaching Assistants or Research Assistants, so the recommended course load is 6-9 credits per quarter for 6 quarters (2 years).
 - The **non-thesis BMS** degree track consists of **8 credits of required core classes**, and **37 credits of elective courses**. This course of study could be completed in as few as 3 quarters by enrolling in 15 credits per quarter.

Thesis Option

This option is for students interested in biological research, private sector jobs, and professional schools where research experience is valued. The thesis option requires successful completion of the core classes, thesis research credits, and an approved thesis, as well as elective coursework. Thesis option students are required to defend their research results before a thesis defense committee.

3+2 graduate program

A unique feature of this program is its 3+2 option for Oregon Tech students. This plan allows a student to simultaneously receive a BS and an MS degree in five years. With this plan, students are moved quickly toward expanding their academic and scientific horizons based on the student's abilities and personal motivation. Students in the 3+2 plan are expected to successfully complete the requirements for both the BS and MS degrees by the end of their fifth year in college.

Non-Thesis Option

This option will be attractive to a broad range of career professionals, including science teachers requiring graduate coursework and individuals with positions in which an MS in Biomedical Sciences will qualify them for promotion. It is also attractive to existing Biology-Health Sciences students. The Biomedical Sciences MS non-thesis option requires completion of the core classes, a capstone, and elective coursework, and may be completed in a single academic year. The program of study for each student must be approved by a graduate committee and the Program Director.

Thesis Track Core Classes

BIO 501 – Graduate Study (3 credits)

BIO 534 – Advanced Data Analysis (3 credits)

BIO 509 – Biomedical Sciences (2 credits)

BIO 510 – Current Issues in Biomedical Sciences (1 credit per term*)

- *Students must take BIO 510 in 3 different quarters, for a total of 3 credit hours

BIO 595 – Graduate Research/Thesis (2 credits per term*)

- *Students must take BIO 595 in 5 different quarters, for a total of 10 credit hours.
Prerequisite: BIO 501.

Non-Thesis Track Core Classes

BIO 509 – Biomedical Sciences (2 credits)

BIO 510 – Current Issues in Biomedical Sciences (1 credit per term*)

- Students must take BIO 510 in 3 different quarters, for a total of 3 credits

BIO 596 – Capstone (3 credits)

Elective Classes

Existing Oregon Tech graduate courses

STAT 505: Biostatistics I (3 credits)

STAT 510: Epidemiology I (3 credits)

WRI 521: Writing at the Grad Level (3 credits)

WRI 510: Grant Proposal Writing (3 credits)

ALH 510: The Science of Evidence-Based Medicine (3 credits)

ALH 515: Scientific Writing and Healthcare Leadership Literature Review (3 credits)

ALH 545: Pertinent Ethical and Legal Considerations for Healthcare Leaders (3 credits)

ALH 565: Population Health Issues for Healthcare Professionals (3 credits)

ALH 585: Financial Considerations and Political Strategies for Healthcare Leaders (3 credits)

Elective coursework that is currently in the course catalogue at the 400-level and we could offer immediately with current staff cross-listed as 400/500-level courses include:

- BIO 507 - Drug Development (1 credit)
- BIO 522 - Neuroscience (3 credits)
- BIO 526 - Evolutionary Biology (3 credits)
- BIO 527 – Special topics in Neuroscience (1 credit)
- BIO 534 – Advanced Data Analysis (3 credits)
- BIO 536 - Immunology (4 credits)
- BIO 538 - Exercise Physiology (3 credits)
- BIO 541 - Genetic Engineering & Therapy (1 credit)
- BIO 542 - Cell Biology (4 credits)
- BIO 544 - Biological Physics (3 credits)
- BIO 545 - Virology (3 credits)
- BIO 546 - Pathophysiology I (3 credits)
- BIO 547 - Pathophysiology II (3 credits)
- BIO 552 - Developmental Biology (3 credits)
- BIO 554 - Environmental Health (3 credits)
- BIO 561 - Human Cadaver Dissection I-III (1 credit per term; available multiple terms)
- BIO 567 - Biomedical Devices (3 credits)
- BIO 597 - Biomedical Internship (1-5 credits)
- CHE 505 - Nanoscience & Nanotech (4 credits)
- CHE 535 - Bioorganic Chemistry (4 credits)
- CHE 550 - Biochemistry I (4 credits)
- CHE 551 - Biochemistry II (4 credits)
- CHE 552 - Biochemistry III (4 credits)
- CHE 565 - Fate and Transport of Pollutants (4 credits)

Future additional electives

As the MS-BMS program grows, so too will our capacity to offer exclusively graduate courses in a greater diversity of areas. We expect that the addition of an MS program will also increase enrollment in the BS program, eventually leading to potential for more departmental faculty.

Students lacking prerequisites for graduate courses will be required to fill those deficiencies. Deficiency credits will not be counted toward the total credit requirements for the program.

Graduate Thesis

MS-BMS students in the thesis track would be required to complete an original research project under the supervision of a faculty advisor. This thesis-based track would include a total of at least five terms of enrollment in BIO595: Graduate Research/Thesis. Students would develop and submit a research plan in their first term for approval by their adviser and graduate committee. Research will be performed beginning in their first or second term. The completed written thesis would require review and approval by the student's graduate committee and one external reviewer. All MS theses will be made available

online through the OIT Library Services. Peer-reviewed publication submission would be highly encouraged and under the discretion and mentorship of the primary graduate adviser.

A thesis-track student's graduate committee would be comprised of the primary adviser, at least one additional Natural Sciences faculty, and an external member from beyond the department. The graduate committee should be determined in the first term of the MS degree. An MS committee agreement will be signed by all members, the student, and university administration. The committee will be responsible for approving the student's proposal, reviewing and approving the final MS thesis, and attending and approving the Public Defense. The committee will also provide technical and academic support during the student's degree to facilitate their success and that of the project.

- d. Manner in which the program will be delivered, including program location (if offered outside of the main campus), course scheduling, and the use of technology (for both on-campus and off-campus delivery).

All classes and courses will be offered on Klamath Falls Campus (with a few elective possibilities online).

- e. Adequacy and quality of faculty delivering the program.

The faculty at Klamath Falls campus teaching in the Natural Sciences have the required credentials and experience to teach the suggested curriculum and lead students in research projects. Below is a brief overview of the primary faculty members who will teach in the program.

- Rachel Edwards, PhD in Biomedical Engineering
- Kamal Gandhi, PhD in Microbiology
- Hui-Yun Li, PhD in Neuroscience
- Travis Lund, PhD in Biochemistry
- Ken Usher, PhD in Chemistry
- Jesse Kinder, PhD in Physics
- Yuehai Yang, PhD in Physics
- Nate Bickford, PhD in Environmental Sciences
- Jherime Kellermann, PhD in Wildlife Conservation & Management

In addition, 4 newly-hired faculty members with PhDs and expertise in biology and biologically-oriented chemistry will be joining the Natural Sciences Department in Fall 2023. In addition to their ability to teach graduate-level electives in the proposed MS program in their areas of expertise, several have been provided both the release time and significant startup funding in order to purchase the necessary equipment and work to establish rigorous research projects; this is in addition to the existing research projects led by current faculty (see also section 5c, below). As a result of these factors, our new and existing faculty members are well equipped to provide significant research and course support to MS students in both the non-thesis and thesis tracks.

- f. Adequacy of faculty resources – full-time, part-time, adjunct.

The Natural Sciences program currently has 19 full time faculty, one part time faculty and a few adjuncts. The full-time faculty will be the primary individuals teaching the curriculum

- g. Other staff.

We have an office manager and plans to hire a lab manager in 2023.

- h. Adequacy of facilities, library, and other resources.

We have facilities and resources that are already being successfully used for the BS programs, and which are more than adequate for the proposed MS program.

- i. Anticipated start date.

We anticipate our program will begin in Fall 2024, with recruitment occurring throughout the 2023-2024 academic year.

2. Relationship to Mission and Goals

- a. Manner in which the proposed program supports the institution's mission, signature areas of focus, and strategic priorities.

The Biomedical Sciences MS Program advances the missions of Oregon Tech by providing a rigorous, high quality applied degree program in sciences, with a focus on the application of theory to practice. It also offers statewide educational opportunities to meet emerging needs.

Oregon Tech Mission

Oregon Institute of Technology, an Oregon public university, offers innovative and rigorous applied degree programs in the areas of engineering, engineering technologies, health technologies, management, and the arts and sciences. To foster student and graduate success, the university provides an intimate, hands-on learning environment, focusing on application of theory to practice. Oregon Tech offers statewide educational opportunities for the emerging needs of Oregonians and provides information and technical expertise to state, national and international constituents.

- b. Manner in which the proposed program contributes to institutional and statewide goals for student access and diversity, quality learning, research, knowledge creation and innovation, and economic and cultural support of Oregon and its communities.

The proposed Program located in Klamath Falls will facilitate student experiences in underserved, rural regions of the state.

Many students attracted to this program will be from the local region and/or from Oregon Tech's biology/science programs and will help establish services in rural and underserved areas of the state. Many of the thesis projects will be focused on the region and will inherently add information that will help us understand the region. Also, many of the student in the degree will head to medical school, with a percentage of these students returning to work to the area.

In addition to providing a rigorous curriculum and conducting regular assessment of learning outcomes, the program will admit students who have the necessary characteristics to succeed in this field. In order to ensure that students will have the necessary preparation for success, applicants must meet the program admissions requirements as determined by Oregon Tech. The program will have a rigorous curriculum, standards for admissions, accreditation standards, and ongoing program assessments.

Per Oregon Tech policy, to be considered for admission to this graduate program, an applicant must have a baccalaureate degree from a regionally accredited college or university, as well as a scholastic record that evidences the ability to perform satisfactory graduate work. Specifically, a student must have:

- completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association
- been in good academic standing at the last college or university attended
- attained a grade point average of at least 3.0 on a 4.0 scale for the last 90 term (60 semester) units attempted
- attained a grade point average of at least 3.0 on a 4.0 scale for the last 45 term hours in the major
- met the professional, personal, scholastic, and other standards for graduate study

Specific Admission Requirements for 3+2

In the 3+2 thesis-based option, students are simultaneously awarded both the BS and MS degrees in five years, thus shortening the normal time to receive both degrees from six years to five years. They must apply and be admitted into the MS program by the Spring term of their junior year (preferred) or by the start of the Fall term of the senior year and meet the course requirements listed below. Students applying to the 3+2 plan must have a minimum 3.0 overall GPA and a minimum 3.25 GPA in their science coursework.

The application file for admission to the 3+2 plan must include:

1. A completed MS application form;
 2. An Oregon Tech transcript;
 3. Two letters of recommendation from faculty;
 4. A statement of research interests; and
 5. Satisfactory scores in 300 and 400 level classes
- c. Manner in which the program meets regional or statewide needs and enhances the state's capacity to:
- i. improve educational attainment in the region and state;
 - ii. respond effectively to social, economic, and environmental challenges and opportunities; and
 - iii. address civic and cultural demands of citizenship.

This program will be one of the only MS programs in the Pacific Northwest to focus on the biomedical sciences. Its rural setting provides a unique opportunity for Oregon residents interested in pursuing biomedical careers while living and working in a non-urban environment. It will thus be well positioned to address the current and upcoming need for medical professionals in the workforce, drawing from traditional undergraduates as well as nontraditional students interested in pursuing a career in biomedicine. The small size of the program will enable it to respond to shifting socioeconomic challenges and opportunities as needed, while the curriculum will be tailored to produce well-rounded medical professionals able to address civic and cultural issues.

3. Accreditation

- a. Accrediting body or professional society that has established standards in the area in which the program lies, if applicable.

N/A

- b. Ability of the program to meet professional accreditation standards. If the program does not or cannot meet those standards, the proposal should identify the area(s) in which it is deficient and indicate steps needed to qualify the program for accreditation and date by which it would be expected to be fully accredited.

N/A

- c. If the proposed program is a graduate program in which the institution offers an undergraduate program, proposal should identify whether or not the undergraduate program is accredited and, if not, what would be required to qualify it for accreditation.

The BS program is accredited through NWCCU.

- d. If accreditation is a goal, the proposal should identify steps being taken to achieve accreditation. If the program is not seeking accreditation, the proposal should indicate why it is not.

NA

4. Need

- a. Anticipated approximate fall term headcount and enrollment over each of the next five years are included in the table below. Separate estimates are provided for the 1-year non-thesis track (“NTT”) and the 2-year thesis track (“TT”) MS students, with a final section tallying the overall MS student enrollment and graduate counts.

| | 1st Year (AY '24- 25) | 2nd Year (AY '25- 26) | 3rd Year (AY '26- '27) | 4th Year (AY '27-28) | 5th Year (AY '28-29) | 5-year cumulative total |
|------------------------------------|---|---|--|--|--|--|
| New incoming NTT students | 5 new NTT | 5 new NTT | 5 new NTT | 5 new NTT | 5 new NTT | |
| Total enrolled NTT students | 5 NTT enrolled | 5 NTT enrolled | 5 NTT enrolled | 5 NTT enrolled | 5 NTT enrolled | |
| Graduating NTT students | 5 NTT graduates | 5 NTT graduates | 5 NTT graduates | 5 NTT graduates | 5 NTT graduates | 25 total NTT graduates |
| | | | | | | |
| New incoming TT students | 5 new TT | 10 new TT | 10 new TT | 10 new TT | 10 new TT | |

| | | | | | | |
|--|----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|
| Total enrolled TT students | 5 TT enrolled | 15 TT enrolled | 20 TT enrolled | 20 TT enrolled | 20 TT enrolled | |
| Graduating TT students | 0 TT graduates | 5 TT graduates | 10 TT graduates | 10 TT graduates | 10 TT graduates | 35 total TT graduates |
| | | | | | | |
| Total enrolled (NTT+TT) MS students | 10 MS enrolled | 20 MS enrolled | 25 MS enrolled | 25 MS enrolled | 25 MS enrolled | |
| Total graduating (NTT+TT) MS students | 5 MS graduates | 10 MS graduates | 15 MS graduates | 15 MS graduates | 15 MS graduates | 60 total MS graduates |

b. Expected degrees/certificates produced over the next five years.

35 non thesis MS degree in Biomedical Sciences

20 thesis MS degree in Biomedical Sciences

c. Characteristics of students to be served (resident/nonresident/international; traditional/nontraditional; full-time/part-time, etc.).

The program design allows for students to be served from any of the above listed characteristics.

d. Evidence of market demand.

Although master's degrees in biology abound, particularly at PhD-granting institutions, there are very few master's degrees with a biomedical science focus in the Pacific Northwest. In Oregon, OHSU offers a two-year non-master's Graduate Program in Biomedical Sciences (PBMS). In addition, OSU offers thesis and non-thesis options of a master's degree in Comparative Health Services (Biomedical Sciences option) via their College of Veterinary Medicine. Our one-year course-based non-thesis MS track will provide an opportunity not currently available in Oregon, enabling students to enhance their foundational biomedical science knowledge base before beginning professional programs. Programs such as these are proliferating rapidly in recent years, and surveys of our recent graduates demonstrate significant interest in both thesis and non-thesis MS degrees offered at our rural setting. (Survey results attached.) Notably, the average growth in the medical fields supported by this program is 15% (much faster than the average growth of 6%) (BLS.gov). There is an obvious need for individuals in the various fields supported by the proposed program.

e. If the program's location is shared with another similar Oregon public university program, the proposal should provide externally validated evidence of need (e.g., surveys, focus groups, documented requests, occupational/employment statistics and forecasts).

NA

- f. Estimate the prospects for success of program graduates (employment or graduate school) and consideration of licensure, if appropriate. What are the expected career paths for students in this program?

A likely career path for many of our graduates is to pursue professional or graduate school. We anticipate many students will use our program to enhance their preparedness for medical, osteopathic, dental, pharmaceutical, and related professional programs. The non-thesis option will be attractive to a broad range of career professionals, including science teachers requiring graduate coursework and individuals with positions in health care or biotechnology in which an MS in Biomedical Sciences will qualify them for promotion. Students on the thesis track will also be prepared to enter the workforce in hands-on roles in the fields of biotechnology, pharmacy, research or clinical laboratories, and related fields. The proposed MS program will build on the success of our undergraduate Biology-Health Sciences program. Approximately 100% of our graduates from this program are either employed or seeking an advanced degree within six months of graduation. Our graduates who decide to apply to graduate programs are accepted at very high rates, and our alumni in graduate school often report that they are better prepared than their peers from other universities, and they often become leaders within their graduate programs and are highly successful in their professional careers. We anticipate the BMS-MS numbers to continue this trend. If we continue to do well, our student will also do well.

5. Outcomes and Quality Assessment

- a. Expected learning outcomes of the program.
1. Promote a deep and integrated understanding of the biological sciences and their implication to the advancement of health and biomedical science.
 2. Strengthen critical analysis and reasoning skills and the application of these skills to the design and execution of scientific inquiry relevant to specific biomedical disciplines.
 3. Generate and effectively communicate scientific knowledge relevant to specific biomedical disciplines.
 4. Develop a commitment to life-long learning and career pursuits within health and biomedical science disciplines.
 5. Foster a commitment to health equity.
 6. Students will demonstrate ability to evaluate pertinent values to ethical dilemmas using multiple ethical frameworks.

- b. Methods by which the learning outcomes will be assessed and used to improve curriculum and instruction.

Typical programmatic assessment will be performed, including tracking of post-graduation student success, surveys of current and former students, assessment by industry experts, analysis of retention patterns, and related efforts.

- c. Nature and level of research and/or scholarly work expected of program faculty; indicators of success in those areas.

Beyond the existing high expectation for scholarship under which the department has long operated, there has been a recent gradually increasing of expectations for faculty surrounding scholarly expectations and scientific research efforts. In support of this, new and existing faculty are being provided significant resources in their efforts to engage students in productive

research projects. This support is being provided financially, for the purchase of supplies and equipment; significant support has also been provided logistically, in the form of assignment of new research spaces, provision of teaching release time in exchange for mentoring student researchers, and related efforts. In addition, several new tenure-track faculty with expertise in biology and biology-oriented chemistry are joining our department in the Fall of 2023, and they have been provided significant startup funding and release time in order to purchase the necessary equipment and supplies to establish rigorous research projects in addition to those research projects led by existing faculty. These projects are already published and presented at both regional and national levels in their respective fields, and we only anticipate an increase in this research output and prominence as a result of the efforts described above. In all, the increased expectation for scholarship among our departmental faculty, as well as the availability of new thesis-based graduate students, dedicating significant time over many months/years to ongoing research projects, will lead to a synergistic enhancement of research efforts in our department.

6. Program Integration and Collaboration

- a. Closely related programs in this or other Oregon colleges and universities.

Although master's degrees in biology abound, particularly at PhD-granting institutions, there are very few master's degrees with a biomedical science focus in the Pacific Northwest. In Oregon, OHSU offers a two-year non-master's Graduate Program in Biomedical Sciences (PBMS). In addition, OSU offers thesis and non-thesis options of a master's degree in Comparative Health Services (Biomedical Sciences option) via their College of Veterinary Medicine.

- b. Ways in which the program complements other similar programs in other Oregon institutions and other related programs at this institution. Proposal should identify the potential for collaboration.

The Biomedical Sciences MS program is designed to build on, augment and improve the existing Biology-Health Sciences BS program, including its faculty, upper division electives, and facilities (such as the cadaver and research labs). The proposed program will exist in two forms: a research-based thesis track, and a course-based non-thesis track. Each will provide opportunities for existing Oregon Tech undergraduates as well as for new post-baccalaureate applicants. The addition of MS-level research opportunities will benefit from the participation of talented undergraduate research students. In addition, the one-year course-based non-thesis track will provide an opportunity not currently available in Oregon, enabling students to enhance their foundational biomedical science knowledge base before beginning professional programs, science teachers requiring graduate coursework and individuals with positions in which an MS in Biomedical Sciences will qualify them for promotion.

Our faculty are actively engaged in research with undergraduates and the addition of graduate student will further facilitate this research. This will create a system where the whole is greater than the parts. This means more can be achieved together.

- c. If applicable, proposal should state why this program may not be collaborating with existing similar programs.

NA

- d. Potential impacts on other programs.

There is no on campus competition for this type of student and we do not expect any negative impacts.

7. External Review

See attached External review report and reviewers CV

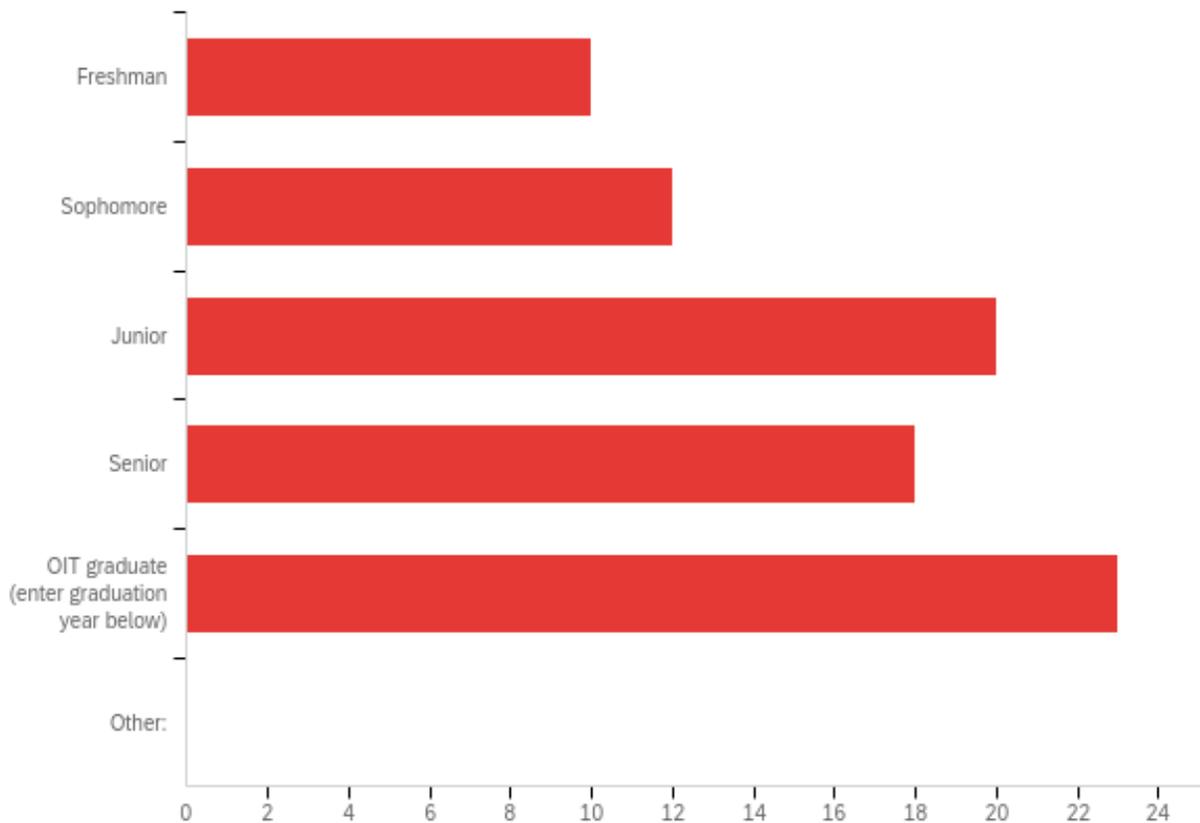
ATTACHMENTS

SURVEY RESULTS

MS in Biomedical Sciences initial survey results

(Generated March 18th 2022)

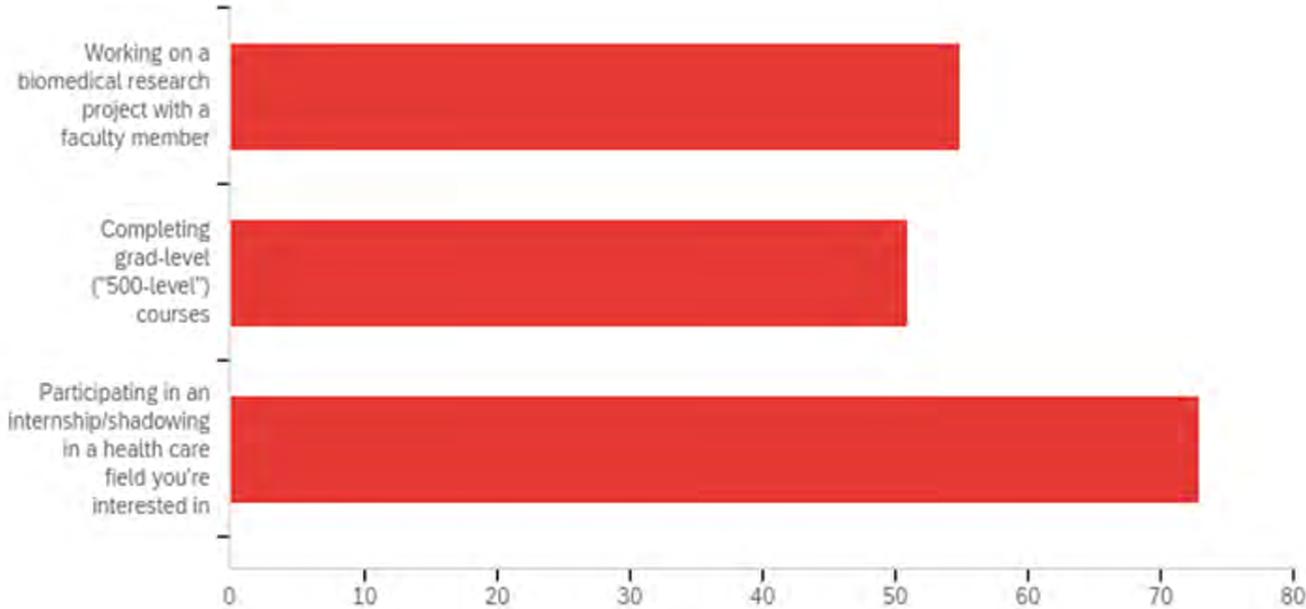
Survey Respondents:



| # | Answer | % | Count |
|---|--|--------|-------|
| 1 | Freshman | 12.05% | 10 |
| 2 | Sophomore | 14.46% | 12 |
| 3 | Junior | 24.10% | 20 |
| 4 | Senior | 21.69% | 18 |
| 5 | OIT graduate (enter graduation year below) | 27.71% | 23 |
| 6 | Other: | 0.00% | 0 |
| | Total | 100% | 83 |

*Grad dates entered: **2021** (n=8), **2020** (n=9), **2019** (n=3), **2016** (n=1), **2012** (n=1)

Q1 - If you were to earn a Master's degree at Oregon Tech, which of these components might you be interested in? (Select ALL that apply.)

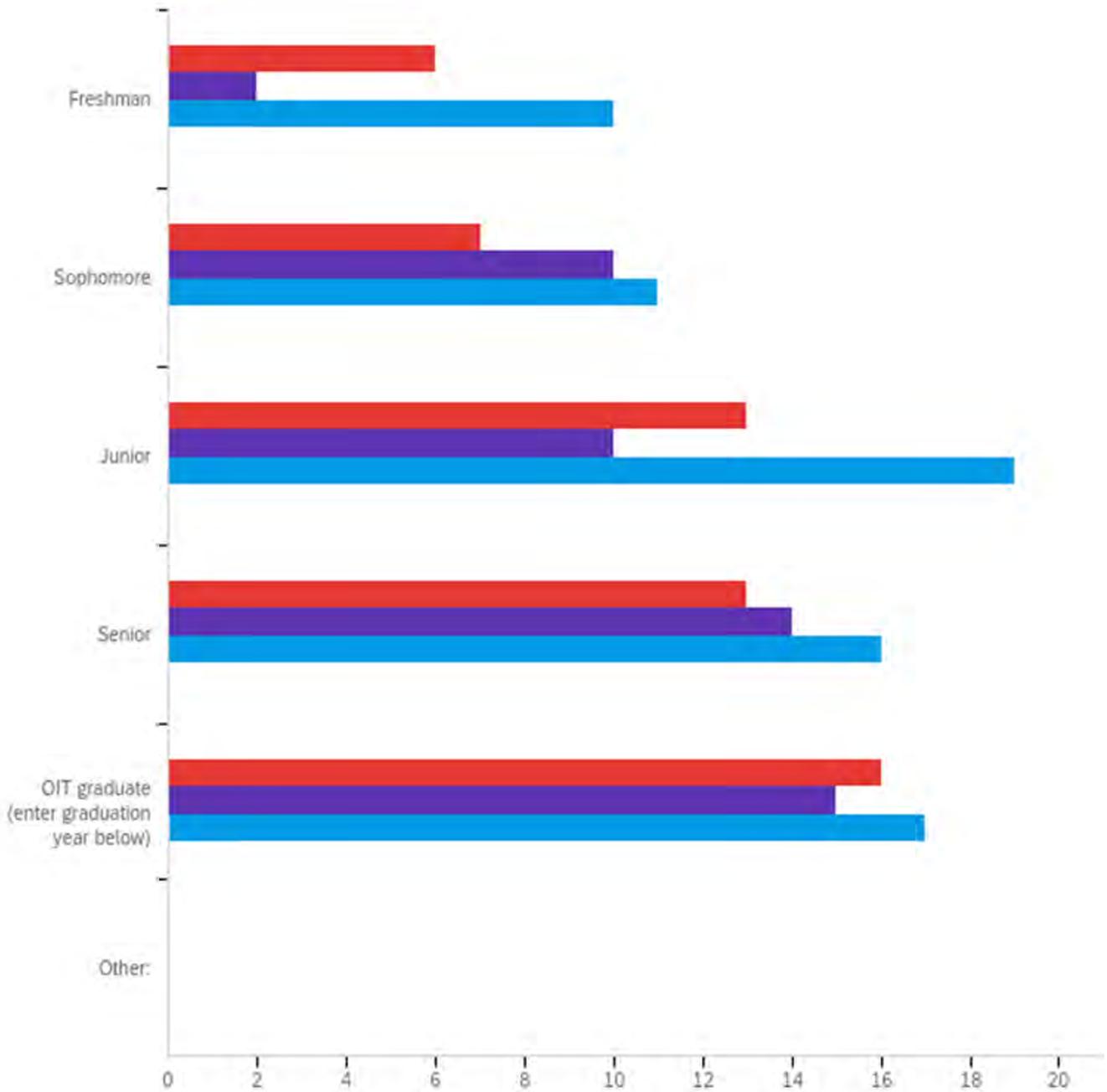


| # | Answer | % | Count |
|---|--|-------|-------|
| 1 | Working on a biomedical research project with a faculty member | 30.6% | 55 |
| 2 | Completing grad-level ("500-level") courses | 28.3% | 51 |
| 3 | Participating in an internship/shadowing in a health care field you're interested in | 41.1% | 74 |
| | Total | 100% | 180 |

Q1 results (MS interests) by student academic year:

Key:

| |
|--|
| ■ Working on a biomedical research project with a faculty member |
| ■ Completing grad-level ("500-level") courses |
| ■ Participating in an internship/shadowing in a health care field you're inte... |
| ■ Other: |



Q3 - (Optional) Feel free to provide any comments/thoughts/questions:

| Year | (Grad yr) | Comment |
|----------|-----------|--|
| OIT grad | 2020 | I am so excited to hear that this is being considered! This is something that I absolutely would have been interested in and is a great way to allow students to further explore a variety of subjects. I also see this as an amazing option for those who are not accepted into professional programs, but want to further their education. I really hope to see this program move forward! |
| OIT grad | 2020 | I most likely would have done any or all of these had the option been there. |
| OIT grad | 2020 | Love it! |
| OIT grad | 2021 | This would interest me, if this program focused mainly on internship and research with maybe a class or two a term mixed in; less heavier on the class load. |
| OIT grad | 2021 | Being able to advance our knowledge in this way after the Bio Health Sciences program would be very beneficial, and I feel like many students would be interested! I wished we had more internal opportunity to explore a health care field we were interested in and this would be a great way to supplement that and offer students another stepping stone to further graduate school. |
| OIT grad | 2021 | I would be interested in all of the above. I think they are all beneficial to those seeking admittance into health careers beyond undergrad. However, I would prioritize the research and 500 level courses, as shadowing/internships are mostly extracurricular. |
| OIT grad | 2012 | As a OIT grad and current OIT faculty, this sounds like a great program. I would love to help with these classes and recommend them to my current health sciences students as another option for grad school |
| OIT grad | | It is interesting to see a master's program to be added to the OIT degree. It would open a lot of opportunity to allow students to be able to strive for a masters. I would also think partnering with different universities. Like having the students work a year at OIT and at the other university. |
| Senior | | I think a Master's program would be a great idea! |
| Senior | | I am very interested in this opportunity! If it is offered for the 2022-2023 school year, I would 100% love to be apart of it! |
| Senior | | I think a test prep class or grad school prep for MCAT / GRE and other health care exams would be really cool. I also like the shadowing / externship idea for seniors or even juniors in all healthcare majors. |
| Senior | | I think this would be a great opportunity for students and it would be highly beneficial. |
| Junior | | When would this masters degree be available to students? What kinda of jobs would this masters degree help us receive? |
| Junior | | great idea |
| Junior | | I would hugely take advantage of this opportunity. As an athlete receiving time back and having goals of med school instead of taking a formal gap year I could work on a program of research or shadowing offering those hours and resume boosters necessary for medical school. |
| Junior | | A Master's Degree program in general would be very beneficial, especially in Biology Health Sciences. I've heard many people talk about it and wish that OIT had one. |
| Junior | | While I am personally not interested in a Masters degree program, I think that the addition of one for bio-health at OIT will bring more options for students! |
| Freshman | | This seems super cool! |
| Freshman | | Students would explore and spend more time at OREGON TECH given a masters degree option. |

EXTERNAL REVIEW

FINAL REPORT
FOR THE ACADEMIC PROGRAM PROPOSAL
OF THE MS BIOMEDICAL SCIENCE PROGRAM
AT OREGON INSTITUTE OF TECHNOLOGY

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Division of Cancer Epidemiology and Genetics, National Cancer Institute

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The following document constitutes our final report for the Higher Education Coordinating Commission (HECC) proposal of a new academic program at the Oregon Institute of Technology (OIT). The Natural Sciences department within the College of Health, Arts, and Sciences, proposes to create a Master's of Science in Biomedical Sciences (MS-BMS) degree program. The new program would have two tracks: thesis and non-thesis and accompany the existing Bachelor of Science in Biology-Health Sciences (BS-BHS) program, likely bolstering its enrollment and curriculum.

Below, you will find information pertaining to the specific topics we were asked to address in our report.

1. Program

a. The program objectives and requirements; the mechanisms for program administration and assessment.

The objectives of the new program are to provide a mechanism for current and future students to obtain an advanced degree in their chosen field of study within the broad field of biomedical sciences. The new program would offer both thesis- and non-thesis-based tracks to students, depending on their career path/goals. Current OIT undergraduates and individuals having completed Bachelor's degrees from other institutions could benefit from the program. For example, OIT undergraduates could complete additional coursework in biomedical science in a "4+1" (non-thesis) or "3+2" (thesis) model, completing advanced degrees approximately one to two years ahead of schedule. These types of models have become common at colleges and universities and are attractive to many students for a variety of reasons, including faster time to advanced degree, continuity of study within the same environment and institute, financial appeal for reduced cost of a graduate degree, and because of strong relationships that are built among students and faculty. Additionally, a new graduate program at OIT would attract recent graduates as well as other professionals wishing to further their education in the Biomedical Sciences. Such individuals could complete their Master's degree in around two years, which is typical of most programs.

For both thesis and non-thesis tracks, the program requirements are typical to similar programs across the United States with respect to admissions, curriculum, and requirements for student academic standing. Credit hour requirements are also within the standard range. The option of either a thesis or non-thesis track degree would be available within the program and these choices have also become quite common in the field. The option of thesis versus non-thesis degrees serves students with diverse career ambitions and interests, which include but are not limited to bench science work or continuation into a Ph.D. or allied health graduate program. For example, the thesis track could prepare students for future graduate programs or for research jobs within the field. Non-thesis track degree holders could have many choices among advanced positions within the community, including within education or medical writing, among others.

The program is anticipated to be overseen by Associate Professor Dr. Travis Lund, who has nine years of experience as a full-time faculty member and two years as a program administrator for undergraduate and graduate programs. He serves as the Director of the Biology-Health Sciences program. Dr. Lund has sufficient experience to oversee the MS-BMS program successfully.

b. The program's alignment with the institution's mission and strategic objectives.

The college has included student learning outcomes associated with the MS-BMS and has a sufficient plan for assessment of student completion of these objectives through the various courses and have a plan for post-completion assessment of success as well as surveys of current and former students of the program, among others.

The proposed MS-BMS program appears to fit solidly within OIT's mission

(<https://www.oit.edu/about/mission-statement>):

"Oregon Institute of Technology (Oregon Tech), Oregon's public polytechnic university, offers innovative, professionally-focused undergraduate and graduate degree programs in the areas of engineering, health, business, technology, and applied arts and sciences. To foster student and graduate success, the

university provides a hands-on, project-based learning environment and emphasizes innovation, scholarship, and applied research. With a commitment to diversity and leadership development, Oregon Tech offers statewide educational opportunities and technical expertise to meet current and emerging needs of Oregonians as well as other national and international constituents.”

The MS-BMS program will accomplish each of these objectives, including utilizing project-based learning, and will greatly enrich the campus community and surrounding community. Students completing both thesis or non-thesis tracks will graduate to serve important roles within Oregon, nationally, or internationally as they move on to Ph.D. programs, medical or dental school, or into careers in health or technology.

c. The depth and breadth of coverage in terms of faculty availability and expertise, regular course offerings and directed study, and access to and use of support resources within and external to the institution.

Faculty within the Natural Sciences department have a wide range of expertise and are fully qualified to teach within their proposed MS-BMS program. The proposed curriculum is strong and comprehensive, nicely complementing the undergraduate program. The core curriculum for each track is solid and the elective class list is varied and impressive and will allow for students to have unique, individualized experiences. The current infrastructure of the existing Bachelor of Science in Biology-Health Sciences (BS-BHS) will support the new MS-BMS program and will undoubtedly benefit from its creation.

d. The relationship of this program to undergraduate and other graduate programs at the institution and other institutions in the state, if appropriate. Consider collaborative arrangements, partnerships, interdisciplinary programs, service functions, joint research projects, support programs, etc.

This is an area of strength for the program as it is the natural progression from the BS-BHS curriculum. Undergraduate students matriculating at OIT will be allowed to choose to enroll in a program that will allow them to “fast track” an eventual Master’s degree. The program also allows research that faculty

complete with undergraduates can also occur at the graduate level and will allow for the development of a TA program which will be of benefit to both the graduate students TA'ing, as well as the undergraduates at OIT benefitting from increased tutoring and mentoring contact hours. This should attract great interest in OIT for prospective students. Students may partner with area hospitals as well as with physicians within the OHSU residency program, which are very attractive options for research and/or study.

e. The justification in terms of state needs, demand, access, and cost effectiveness (if this program represents duplication within the state).

The MS-BMS program at OIT would be one of the few available within the Pacific Northwest. A major advantage of developing this program is providing access to higher education in biomedical sciences to a rural part of the state, giving residents the opportunity to gain experience and training in the field to pursue technical jobs within their community. The program may attract more interest in OIT as prospective students learn of the program, thereby increasing revenues associated with tuition, housing, etc. There is also considerable interest from international students in enrolling in Biomedical Sciences graduate programs in the United States and many foreign countries sponsor their students.

f. The probable impact of the program on the department or academic unit, as well as its effect on current programs.

The addition of an MS-BMS program to the existing Natural Sciences Department will likely strengthen its overall attractiveness and effectiveness. As student enrollment and interest increase, additional faculty (FT or adjunct) that may join the program would increase the diversity of expertise within both programs and will increase their overall course offerings. Importantly, since students within the MS-BMS program will be expected to occupy Teaching Assistantships (TAs) or Research Assistantships (RAs), faculty's time can be focused on conducting research with students or teaching advanced classes.

Undergraduate students will benefit from interactions with TAs (and vice versa). Increasing the number of research projects within the department will be of benefit to all.

g. The program's major strengths and weaknesses.

The structure of the program is such that students with varying interests in the sciences can find courses that align with their interest(s) and career goals. While there are core courses that early-career students are required to take, the rest of the program is fulfilled through the completion of multiple elective courses, giving students the freedom to choose their path to graduation. In addition, the breadth of course offerings and student learning objectives will fully prepare students for a career in the biomedical sciences, or to enter an advanced graduate degree program such as a Ph.D., M.D., or similar program. A major strength of the program is the ability for students to not just work on projects with OIT's excellent faculty, but to also take advantage of local partnerships that have been built between OIT and area hospitals, including the residency program at OHSU. Students will also be encouraged to form relationships with the collaborators of their faculty mentors, which would enhance the learning experiences for those choosing to do so.

2. Faculty

a. The quality of the faculty in terms of training, experience, research, scholarly contributions, ability to generate external support, stature in the field, and qualifications to serve as graduate faculty.

The review board reviewed the CVs as well as consulted the college's website for information about the faculty at OIT that will teach in the program. The faculty at OIT are excellent in all respects listed. They have terminal degrees in their respective fields. There is a great track record of the ability to obtain external grants and funding as well as peer-reviewed publications. In addition, collectively the faculty have tens of years of experience of providing undergraduate and graduate education within the Pacific northwest, with expertise in the courses proposed for the MS-BMS. There is no question that they are qualified to serve as graduate faculty.

b. The faculty in terms of size, qualifications for area(s) of specialization offered, and the student body served. Include analysis of program sustainability in light of such factors as upcoming retirements, etc.

The Natural Science faculty at OIT consists of 21 faculty members. The committee was not made aware of upcoming retirements. Through conversation with the OIT MS-BMS program coordinators the committee was given the impression that as the program grows, additional hiring of faculty will be brought into the program to ensure continued sustainability of the program.

c. Areas of faculty strength and weakness.

OIT emphasizes the importance of teaching with its faculty. This is clearly a great plus for the proposed program. One aspect of teaching effectiveness involves two forms (a Faculty Objectives Plan and an Annual Performance Evaluation) followed by annual meetings with Dr. Bickford for each faculty member. Both forms discuss Teaching, Research/Professional Development, and Service. Teaching is always incorporated into these discussions, which aim to document and work on improving such factors as student evaluations, efforts to improve teaching methods/materials/curricula, changes made in the classroom, documentation of the effects of those changes, teaching workshops or conferences faculty members have attended, OERs adopted, etc. OIT also enjoys a campus faculty-run group, the “Commission on College Teaching”, which holds many events throughout the year, including an annual teaching conference, a week-long (40-hr) teaching-oriented workshop, discussion groups, and guest speakers. There are many on-campus resources for improving teaching as well.

d. Faculty workload, including availability for student advising, research oversight, mentoring, and teaching effectiveness.

Typical faculty workload is approximately two classes and three lab sections per term per faculty member, and some have research release time for those more heavily engaged in student research projects. Most of the faculty advise students in the Biology-Health Sciences or Environmental Sciences programs, which averages about a dozen advisees each.

e. The credentials, involvement of, and reliance upon support faculty from other departments within the institutions, from other institutions, and/or adjunct faculty.

Few other departments or institutions will have much interaction with the program with notable exceptions. They will allow students from elsewhere to enroll in a small number of existing graduate-level courses, including general classes in statistics, writing, and Allied Health. However, certain students may form partnerships with the local hospital, OHSU physician residency program, or with scientific collaborators of OIT faculty whose research groups they join. These partnerships represent excellent opportunities for MS-BMS students and should be encouraged.

3. Need

a. The evidence of sufficient demand and/or relevant employment opportunities for graduates of this program.

There is currently a dearth of graduate programs in Biomedical Sciences within the Pacific Northwest and the popularity of and need for such programs is growing as technologies and research needs advance. Graduates from an MS-BMS program at OIT will be equipped to serve important roles within their communities within Oregon and/or across the nation/world, to advance to Ph.D. programs, or to enroll in medical, dental, or veterinary schools. Hiring managers are increasingly seeking individuals who have Master's degrees to fill higher-level positions within their laboratories, and are particularly interested in those with demonstrated skills in research, which can be measured by the completion of a thesis and/or peer-reviewed publications. The proposed OIT MS-BMS program will successfully ensure that its students will be well-positioned for success and as strong candidates for these jobs. Additionally, the student experience within the OIT MS-BMS will allow graduates to be better prepared for proceeding on to obtain admittance into Ph.D., medical, dental, veterinary, or other terminal degree programs, which will greatly increase employment opportunities.

b. The overall need for the program within the institution, state and/or region, and nation.

There is a growing need for graduate programs in the Biomedical Sciences, particularly those focused on laboratory research versus the technological and business aspects of Biotechnology companies. The recent global pandemic has solidified the idea that we need to train more people to serve important roles within our biomedical research communities across the nation. The MS-BMS program at OIT would be an excellent and timely addition to that region of the United States and would produce students with the necessary skills to perform the complex tasks of biomedical research upon graduation or that would go on to doctoral or medical programs. It is critical to support the addition of research-based programs in Biomedical Science as many graduate programs have pivoted to focus more on preparing students to enter the biotechnology and pharmaceutical (e.g., manufacturing) industries.

4. Resources

a. The adequacy of library, computer, laboratory, and other research facilities and equipment; offices; classrooms; support services for the program; and, if relevant, the program's utilization of resources outside the institution (e.g., field sites, laboratories, museums, libraries, and cooperative arrangements with other institutions).

The proposed program will capitalize on the existing space and equipment that is already in place for BS-BHS, all of which is more than adequate to meet the needs of MS-BMS. The Klamath Falls library at OIT is located on campus and includes online databases as well as print and electronic journal access, and ILL services, as well as is part of the Orbis Cascade Alliance. All of these will be valuable to students when writing their term papers and theses, and to the faculty which will access them for their research purposes.

b. The proposed budget and any need for new resources to operate the program effectively. Where appropriate, review resources available to support graduate students (e.g., fellowships and other scholarships, teaching and research assistantships).

Resources have been requested to support the addition of four RAs and TAs, at \$23,000 per student, within the proposed program. These opportunities will attract students as their tuition will be deferred and they will receive a stipend for living expenses. As stated earlier, this will be a net benefit for MS-BMS since such assistantships will allow the faculty to focus on advanced courses and to participate in research and other scholarly activities with students. Otherwise, it is expected that the budget to remain neutral for at least the first few years of inception of the program as the existing faculty and infrastructure will be utilized.

c. In terms of national standards, the institution's commitment to the program as demonstrated by the number of faculty relative to workload and student numbers, support for faculty by nonacademic personnel (e.g., support, staff, technicians), financial support for students, and funds for faculty research and professional activities (e.g., conferences, visiting lectures).

There are currently 19 full-time faculty members, one part-time faculty and a few adjunct professors teaching within the Natural Sciences program. With a projected headcount of approximately 50 students within the program for the next five years, the faculty: student ratio is very attractive. There is one office manager, and it is anticipated that a new laboratory manager will be hired within this calendar year. Four TA or RA positions will be available.

d. Institution leaders' commitment to this program in the long term.

OIT leaders are fully committed to the MS-BMS program in the long term, and there is strong support from the Chair of the Natural Sciences Department, who will serve as faculty in the new program.

e. The institution's ability to sustain the program in the foreseeable future along with its current and future projected commitments.

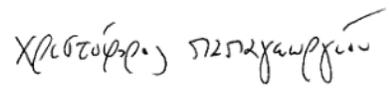
OIT is well-positioned to sustain a new MS-BMS program for the foreseeable future. Current undergraduate students have already expressed interest in the program, and there is a good likelihood that other people living in the community or within other communities in Oregon or the surrounding

states would enroll since there are not other like programs and because the demand for workers in biomedical fields is growing. As the program matures, it would likely also attract interest from around the country and world, as is common in similar MS-BMS programs. The faculty are certainly committed to ensuring its success.

Final comments

The committee is in strong support of the creation of a Master's degree program in Biomedical Sciences (MS-BMS) at Oregon Institute of Technology (OIT). Such a program is needed, timely, and will serve the Pacific Northwest and beyond. The current faculty within the Natural Sciences program at OIT are more than qualified to teach within a graduate program, and their proposed curriculum is appropriate and contains a diverse set of course offerings that will cater to a variety of student interests. In addition to strong faculty leadership, what is especially attractive are the opportunities for students to partner with organizations within the local community for their research and study. Though the present global pandemic is finally winding down, we need to be prepared to face the future that may hold other pandemics and other health-related challenges. Equipping the future generation to better accommodate these challenges fundamentally begins with education. Now, more than ever, we need more highly trained individuals from programs such as the proposed OIT MS-BMS to join the ranks. The proposed program will be instrumental in achieving those goals. Graduating students will be well-equipped to move on to Ph.D. or medical degree programs, or to immediately join the workforce as highly skilled workers, for which we are in dire need. We suggest that the HECC support the addition of this important program.

Respectfully Submitted,



Christopher Pappas, Ph.D.
Review Member



Derek Wiseman, M.D.
Review Member



Meredith Yeager, Ph.D.
Review Member and Principal Author of Report

Christopher J. Pappas, Ph.D.

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Qualifications Overview

- Thirteen years' experience in the field of molecular biology and microbiology
- Thirteen years' experience in graduate and undergraduate education in the field of biology for majors and non-majors
- Molecular biology techniques; genetic disruption & complementation, Western blot, qRT-PCR, etc.
- In vitro protein expression, purification, and analysis
- Maintenance and manipulation of vectors and pathogens/ saprophytes for Lyme disease and leptospirosis
- Small mammal handling, dissection, data analysis and interpretation
- Trained in OSHA, DOT-HAZMAT, EPA laboratory specific regulations, and 24 hour HAZWOPER
- OSHA Authorized General Industry Outreach Trainer (10 and 30 hour courses)
- Experienced in development of Chemical Hygiene Plan, Biological Safety Manual, Emergency Response

Education and Training

| | |
|---|--------------------|
| Fellowship, Institut Pasteur, Paris, France | June 2013-May 2015 |
| Ph.D., Microbiology & Immunology, New York Medical College, Valhalla, NY "Glycerol utilization and carbohydrate regulation by <i>Borrelia burgdorferi</i> is essential for spirochete fitness during the enzootic cycle" *thesis approved with distinction | May, 2011 |
| M.S., Microbiology & Immunology, New York Medical College, Valhalla, NY "H5N1 Influenza: Background, Significance, and Emergency Preparedness" | May, 2006 |
| B.S., College of Arts and Sciences, Syracuse University, Syracuse, NY Major: Psychology, Minors: Biology and Neuroscience | May, 2002 |

Professional Experience

| | |
|--|---------------------|
| Professor and Director of Laboratory Safety, Manhattanville College | Aug. 2011-present |
| <ul style="list-style-type: none">• Serve as Division Chair of Natural Science, Mathematics, and Computing• Serve as Interim Chair of Faculty• Design and teach courses in biology, health, and human disease: parasitology, molecular biology, biochemistry, genetics, and nutrition• Lead a <i>Leptospira</i> based research program focused on mechanisms of adaptation of the spirochete to various environments• Mentor undergraduates in laboratory techniques and research design, including <i>Leptospira</i> research, arthropod repellency studies and methods design, compost soil microbial diversity and composition• Write recommendation letters for undergraduates for studies in various disciplines• Integrate extracurricular activities in student development, such as planning of a community garden• Serve on multiple institutional committees• Ensure laboratory personnel conduct experiments using safe and responsible laboratory techniques• Implement and train personnel in OSHA and EPA compliant laboratory safety training• Inspect and update laboratories for compliance with OSHA, EPA, NYSDEC, NYSDOH regulations• Coordinate the waste stream for hazardous materials within multiple academic departments• Review and update Manhattanville's Chemical Hygiene Plan and student safety contracts | |
| Visiting Researcher, Institut Pasteur, Paris, France | June 2013-June 2015 |
| <ul style="list-style-type: none">• Fellowship in the laboratory of Dr. Mathieu Picardeau in the Biology of Spirochetes Unit completed in collaboration with Manhattanville College under NSF grant IIA-1159099• Identified virulence factors within pathogenic <i>Leptospira</i> spp., as well as development of novel genetic manipulation tools• Managed and studied comparative medicine models for leptospirosis• Coordinated multi-team projects with international collaborators• Assisted in the training of laboratory personnel and helped facilitate a collegiate working environment• Assisted in the management of hazardous materials, waste, and emergency response• Reviewed scholarly work prior to its presentation at conferences or for publication• Presented research at international conferences and prepared manuscripts for publication | |

- Graduate Research Associate, New York Medical College, Valhalla, NY Sept. 2006-June 2011
- Determined effects of carbohydrate utilization on the fitness of *Borrelia burgdorferi*, the etiologic agent of Lyme disease, throughout the enzootic cycle
 - Utilized numerous molecular biology techniques, such as genetic disruption, complementation, recombinant protein expression, and qRT-PCR
 - Oversaw maintenance and manipulation of the tick vector *Ixodes scapularis*
 - Assistance in training and management of laboratory personnel
 - Development of safe and responsible laboratory techniques among laboratory personnel
 - Participation in the ordering, management, storage, and disposal of chemicals and reagents
 - Developed collaborations with colleagues from other academic institutions
 - Wrote abstracts, posters, and manuscripts
- Adjunct Professor, Manhattanville College, Purchase, NY Aug. 2010-June 2011
- Taught lectures and laboratories in the fields of general biology and parasitology
- Medical Microbiology Laboratory Preceptor, New York Medical College, Valhalla, NY Oct. 2006- Nov. 2008
- Preceptor of laboratories for medical students
 - Taught course work including subjects such as the identification and typing of Gram positive and negative bacteria, antibiotic sensitivity plating, and differential diagnosis
 - Taught students responsible laboratory techniques
- English Teacher, Sleepy Hollow Middle School, Sleepy Hollow, NY Jan. 2005- June 2005
- Taught 8th grade English, covered contemporary literature and ethics
- English Teacher, Academia de Inglés, Madrid, Spain Sept. 2002- July 2004
- Taught English as a second language to students aged 3 to 60 and at various levels

Publications

- **Pappas CJ**[^], Xu H, Motaleb MA “Creating a Library of Random Transposon Mutants in *Leptospira*” In: Koizumi N, Picardeau M (eds) *Leptospira* spp.. Methods in Molecular Biology vol 2134. Humana, New York, NY. 2020. [^]**corresponding author**
- Meade P, Abate A, Pavo J, Yeung-Cheung A, **Pappas CJ**[^]. “A novel ex vivo biosassay suggests DEET is an effective repellent of *Rhipicephalus sanguineus*” Journal of Agricultural and Urban Entomology. 2017. Vol 33 (1):19-31 [^]**corresponding author**
- Zhukova A, Fernandes LG, Hugon P, **Pappas CJ**, Sismeiro O, Coppee JY, Becavin C, Malabat C, Eshghi A, Zhang JJ, Yang FX, Picardeau M. “Genome-Wide Transcriptional Start Site Mapping and sRNA Identification in the Pathogen *Leptospira interrogans*” Frontiers in Cellular and Infection Microbiology. 2017 Jan;7:10.
- Hu WL*, **Pappas CJ***, Zhang JJ*, Yang YY, Yan J, Picardeau M, Yang XF. “The EbpA-RpoN regulatory pathway of the pathogen *Leptospira interrogans* is essential for the survival in the environment”. Applied and Environmental Microbiology. 2017 Jan; Vol 83 (3). ***co-first author**
- **Pappas CJ**, Picardeau M., “Control of Gene Expression in *Leptospira* spp. by Transcription Activator-Like Effectors Demonstrates a Potential Role for LigA and LigB in *Leptospira interrogans* virulence” Applied and Environmental Microbiology. 2015 Nov; Vol 81 (22). ***Selected as article of significant interest from this issue**
- **Pappas CJ**, Benaroudj N, Picardeau M., “A replicative plasmid vector Allows efficient complementation of pathogenic *Leptospira* strains” Applied and Environmental Microbiology. 2015 May; Vol 81 (9).
- Bugrysheva JV*, **Pappas CJ***, Terekhova D., Iyer R, Godfrey HP, Schwartz I, Cabello FC. “Characterization of the Rel_{Bbu} Regulon in *Borrelia burgdorferi* Reveals Modulation of Glycerol Metabolism by (p)ppGpp..” PLoS One, Feb 2015. ***co-first author**
- **Pappas CJ**, Iyer R, Liveris D, Petzke M, Caimano MJ, Radolf JD, Schwartz I. “*Borrelia burgdorferi* requires glycerol for maximum fitness during the tick phase of the enzootic cycle” PLoS Pathogens 2011 Jul;7(7):e1002102. Epub 2011 Jul 7
- Banik S, Terekhova D, Iyer R, **Pappas CJ**, Caimano MJ, Radolf JD, Schwartz I. “BB0844, an RpoS-regulated protein, is dispensable for *Borrelia burgdorferi* infectivity and maintenance in the mouse-tick infectious cycle.” Infection and Immunity. 2011 Mar;79(3):1208-17
- Hanincova K, Ogden NH, Diuk-Wasser M, **Pappas CJ**, Iyer R, Fish D, Schwartz I, Kurtenbach K. “Fitness variation of *Borrelia burgdorferi* sensu stricto strains in mice” Applied Environmental Microbiology. 2008 Jan, 74 (1): 153-7

- Foels R, **Pappas CJ**. “Learning and Unlearning the Myths We are Taught: Gender and Social Dominance Orientation” Sex Roles. Vol. 50, Nos. 11/12, June 2004

National and International Conferences

- **Pappas CJ**, Javier A, Kunwar S, Lizardo N. “Identification of Molecular Mechanisms of Adaptation to Osmotic Stress in *Leptospira biflexa*. Gordon Research Conference: Biology of Spirochetes January 2018. Speaker and Poster Presenter.
- **Pappas CJ***, Hu W*, Zhang J, Yang Y, Yan J, Picardeau M, Yang F. “An Enhancer Binding Protein Affects RpoN Regulated Gene Expression in *Leptospira interrogans*.” Gordon Research Conference: Biology of Spirochetes. Poster Presenter. Ventura, CA, Jan. 2016 *Contributed equally
- **Pappas CJ***, Benaroudj N, Picardeau M. “Development of Genetic Manipulation Tools for Use in *Leptospira* spp. has provided Insight into the Biology of Pathogenic Leptospire.” Gordon Research Seminar: Biology of Spirochetes. Poster Presenter. Ventura, CA, Jan. 2016
- **Pappas CJ**, Benaroudj N, Picardeau M. “Development of Genetic Manipulation Tools for Use in *Leptospira* spp. has Provided Insight into the Biology of Pathogenic Leptospire.” 6th Annual Young Researchers in Life Sciences Conference. May 2015. Paris, France. Abstract No. 18
- **Pappas CJ**, Hu W, Zhang J, Yang Y, Yan J, Picardeau M, Yang F. “Formate Hydrogenlyase Activator (FhlA) Enhances RpoN Regulated Gene Expression in *Leptospira interrogans*” 7th International Conference on Emerging Zoonosis. Berlin, Germany. October 16-17 2014. Abstract No. 69
- **Pappas CJ**, Picardeau M. “Transcription Activator-Like Effectors (TALEs) Are Effective Modulators of Transcription in *Leptospira* spp.” Federation of European Biochemical Societies-European Molecular Biology Organization Joint Conference. Paris, France. August 30th-September 4th 2014. Abstract No. WED-446
- **Pappas CJ**, Picardeau M. “*Leptospira interrogans* encodes a PP2C-like *rpoB* regulator essential for virulence.” 9th Conference Louis Pasteur on Emerging Infectious Diseases. Paris, France. 9-11 April 2014. Abstract No. 48P.
- **Pappas CJ**, Bugrysheva JV, Iyer R, Godfrey HP, Schwartz I, Cabello FC. “Glycerol Utilization by *Borrelia burgdorferi* is Regulated by Rel_{Bbu} When in a Nutrient Limited Environment.” American Society for Microbiology 111th General Meeting. New Orleans, LA, May 21-24, 2011. Abstract No. D-196
- **Pappas CJ**, Iyer R, Liveris D, Hanincova K, Caimano MJ, Radolf JD, Schwartz I., “*Borrelia burgdorferi* Glycerol-3-Phosphate Dehydrogenase (GlpA) is Important for Spirochete Maintenance in the Tick” American Society for Microbiology 110th General Meeting. San Diego, CA, May 23-27, 2010. Abstract No. D-658.
- Banik S, Terekhova D, Iyer, R, **Pappas CJ**, Schwartz I., “*Bb0844*, an RpoS Regulated Gene, is Dispensable for *Borrelia burgdorferi* Pathogenicity and Maintenance in the Mouse-Tick Infectious Cycle” American Society for Microbiology 110th General Meeting. San Diego, CA, May 23-27, 2010. Abstract No. D-664
- **Pappas CJ**, Iyer R, Liveris D, Caimano MJ, Radolf JD, Schwartz I. “Glycerol Utilization by *Borrelia burgdorferi* is Essential During the Tick Phase of the Spirochete Lifecycle.” Gordon Research Conference: Biology of Spirochetes. Ventura, CA, January, 2010 Poster Presenter.

Peer Reviewer

- Reviewer, PLoS Neglected Tropical Disease June 2021- present
- Review Board Member, Microorganisms Jan 2021- present
- Review Board Member, Biology Mar 2021- present

Student Publications

- Rummaneethorn N., Caoili CM. “D-Limonene Increases Efficacy of Rifampicin as an Inhibitor of In Vitro Growth of Opportunistic *Staphylococcus epidermidis* RP62A.” NCUR Proceedings. Faculty Advisors: Yeung-Cheung, A., **Pappas, CJ**. Accepted: August 2016.

Developed Technology

- pMaORI replicative vector, made publicly available March 2015. Genbank Accession Number: KP784428.1

Outreach Presentations

- “How to Avoid Tick-Borne Diseases: Identification, Prevention, Response” Jay Heritage Center, Rye, NY June 2022.

Derek Joseph Wiseman

516 Harbor View Dr. Unit B, Klamath Falls, OR, 97601 | (541) 646-6431 | wisemand@ohsu.edu | Pager: 23146

EDUCATION

- 2021-2024** FM Residency, OHSU Cascades East Family Medicine, Klamath Falls, OR
- 2021** MD, Oregon Health and Science University, Portland, OR
- 2016** BS, *magna cum laude*, Biology/Health Sciences, Oregon Institute of Technology, Klamath Falls, OR
Minors: Chemistry and Medical Sociology
- 2010-2012** Transfer, Klamath Community College, Klamath Falls, OR

CERTIFICATIONS/EDUCATIONAL EXPERIENCES

- 2021-2024** Neonatal Resuscitation Program Certification
- 2021-2024** Advanced Trauma Life Support Certification
- 2021-2024** Pediatric Advanced Life Support Certification
- 2021-2024** Advanced Cardiac Life Support Certification
- 2020-2021** Oregon FIRST program. Oregon Health and Science University. 4th year of medical school spent at Cascades East Family Medicine.
- 9/2020** Advanced Wilderness Life Support Certification. Expires 09/2024.
- 2018-2021** Oregon AHEC Scholar, Oregon Health and Science University.
-Completed project educating high school students on career paths in medicine and teaching a hands-on workshop on suturing.
- 8/2019** Basic Life Support Certification. Expires 08/2021.
- 2018-2023** Stop The Bleed Instructor. Certified instructor of hemorrhage control training.

RESEARCH EXPERIENCE

- 2018-2021** Primary, *The Impact of Rurality on Health Professional Student Attitudes and*

Motivations to Pursue a Rural Career, Oregon Health and Science University.

- 2016** *Crystallographic protein structure analysis/correction*. Oregon Institute of Technology. Analyze/correcting protein structures and investigating potential unknown functions of lesser-known proteins.

TEACHING/WORK EXPERIENCE

- 2019-2020** Anatomy Tutor, Oregon Health and Science University, School of Medicine. Tutoring anatomy for 1st and 2nd year medical students in small groups and 1-on-1. Developing Study Guides.
- 2016-2017** Adjunct Professor, Oregon Institute of Technology. Instructing anatomy and cadaver labs for pre-health professional students.
- 2010-2017** Telecommunications/Technical Support Specialist. IQOR. Providing technical support and customer service for satellite systems and training new hires.

PUBLICATIONS

- 2018-2019** Oregon Academy of Family Physicians Magazine. Quarterly co-author, *Student Speak Out!* column.

PRESENTATIONS

- 2020** Society of Teachers of Family Medicine Conference. Co-presenter, *Students Engaging Students: Social Justice June*. Presenting our innovative framework for engaging medical students in the social determinants of health and its applicability to other FMIG chapters through a focused social justice curriculum.
- 2020** Japan Primary Care Association Annual Conference. Presenter and OHSU FMIG ambassador, *Growing Together: What We Can Do Now and In The Future*. Presenting ways that learners of all stages can engage in career planning and community health promotion.

LEADERSHIP & EXTRACURRICULAR

- 2023-2024** **Chief Resident- Cascades East Family Medicine**
Elected Leadership Position. Oregon Health & Science University.
- 2018-2019** **Family Medicine Interest Group,**
Community Outreach Co-Lead, Oregon Health and Science University, School of Medicine.
- 2018-2019** **Rural College,** *Co-Lead,* Oregon Health and Science University, School of Medicine.
- 2017-2019** **Admissions Ambassador,** Oregon Health and Science University, School of Medicine. Interview panels, campus tours, and hosting interviewees. Providing mentorship to pre-medical and early medical students.
- 2018** **OHSU Health Care Equity Series Planning Committee,** *Community Outreach.* Recruiting community programs to establish services offered at the OHSU Health Care Equity Fair.
- 2018** **Pacific Northwest Mobile Healthcare Association,** *Planning and Recruitment.* Working with Casey Eye Clinic and ¡Salud! Mobile Health Clinic to organize event and recruit volunteers for the 2nd annual Day of Service.
- 2016-2017** **Blue Zones Project,** *Built Environment Committee Intern.* Active Transportation Project development and volunteer recruitment/training.
- 2015-2017** **CASA of Klamath County,** *CASA Liaison-Board of Directors.* Program oversight and event planning. Established CASA Kid Fund. Volunteer recruitment and community presentations.

VOLUNTEER

- 2021-2023** **Stop The Bleed.** Hosting hemorrhage control trainings for the general public.
- 2018** **OHSU Health Equity Fair,** *volunteer.* General fair oversight, checkout services, collecting survey data from participants.
- 2018** **Operation Nightwatch,** *volunteer.* Providing warm meals and beverages, social interaction, and clothing to underserved homeless populations in Portland, OR.

- 2018** **Pacific Northwest Mobile Healthcare Association,** *Day of Service volunteer.* Providing blood pressure and glucose checks, and patient education to underserved populations.
- 2013-2017** **CASA of Klamath County,** *Court Appointed Special Advocate.* Investigating and forming evidence-based recommendations for the best interests of foster youth in court. Tutoring foster youth through a club I founded at OIT.
- 2012-2017** **Klamath Hospice,** *Patient/Family Volunteer and Caring Companion Volunteer.* Providing social and emotional support for hospice patients and respite support for their caretakers. Being a supportive presence during time of passing.
- 2016** **Camp Evergreen,** *Bereavement Counselor/Adult Staff.* Providing support for youth who have lost family members. Leading and planning activities. Oversight of campers.

HONORS AND AWARDS

- 2021** **Mary Gonzales Lundy Award,** Oregon Academy of Family Physicians Foundation.
- 2021** **William O. Stahl MD Award for Rural Health Practitioners,** Oregon Health and Science University.
- 2018** **School of Medicine Ambassador-Spring Quarter Award,** Oregon Health and Science University.
- 2017-2021** **Scholar for Healthy Oregon,** scholarship recipient.
- 2016** **President's Senior Cup,** Oregon Institute of Technology.
- 2016** **Outstanding Community Service Award,** Oregon Institute of Technology.
- 2016** **Outstanding Scholar Award- Biology/Health Sciences,** Oregon Institute of Technology.
- 2016** **Myron Gitness Award- Volunteer of the Year,** CASA for Children of Klamath County.
- 2015** **Klamath Country Volunteer of the Year Award- Adult Division,** United Way.

PROFESSIONAL SOCIETY

MEMBERSHIPS

OREGON MEDICAL ASSOCIATION, OREGON
ACADEMY OF FAMILY PHYSICIANS, AMERICAN
ACADEMY OF FAMILY PHYSICIANS, SOCIETY OF
TEACHERS OF FAMILY MEDICINE, AMERICAN
MEDICAL ASSOCIATION, AMERICAN COLLEGE OF
PHYSICIANS

PROFESSIONAL INTERESTS

Full-scope Family Medicine including but not limited to:
Rural Health, Women's Health/Obstetrics, Addiction
Medicine, Point of Care Ultrasound, Hospital Medicine,
Geriatrics, and Pediatrics.

PERSONAL INTERESTS

Biking, hiking, camping, kayaking, disc golf, music,
cooking, reading

- “How to Avoid Tick-Borne Diseases: Identification, Prevention, Response” Staten Island Lyme Disease Forum organized by Borough President James Oddo. Wagner College, Staten Island. June 2019.
- “How to Avoid Tick-Borne Diseases: Identification, Prevention, Response” Gaynor McCown High School, Staten Island, NY. April 2019.
- “How to Avoid Tick-Borne Diseases: Identification, Prevention, Response” Muscoot Farms. Katonah, NY. September 2019

Invited Academic Talks and Discussions Led

- Meade P., Abate A., Pavo J., Yeung-Cheung A., Pappas CJ “A novel *ex vivo* bioassay suggests DEET is an effective repellent of *Rhipicephalus sanguineus*” Symposium on Bridging Clinical and Basic Science Research of Tick-Borne Infections. New York Medical College, Valhalla, NY. October 2018
- “Seeing Their Shadow: How *Borrelia burgdorferi* and *Leptospira* Adapt to their Environmental Niches” Yale Biological Anthropology Colloquium Series. February 2017. Yale University, Department of Biological Anthropology.
- “Making a Scientist: Lessons Learned from Lyme Disease to Leptospirosis” Rye Neck High School Science Symposium. June 2016. Rye Neck High School, Rye Neck, NY.
- “A Moveable Feast: Translating Techniques and Tools Developed at the Institut Pasteur in Paris into Student Incorporated Research at Manhattanville.” Manhattanville College Library Faculty Lecture Series. Feb. 2016.
- Discussion leader, Frontiers of Spirochete Research. Gordon Research Seminar: Biology of Spirochetes. Ventura, CA. Jan. 2015
- “A Croissant for My Pillow: The Life of an American Scientist in Paris.” Manhattanville College Library Faculty Lecture Series. January 2014.
- “Good Nutrition as a Human Right: Manhattanville’s Organic Community Garden as a Case Study.” Human Rights Awareness Day, Manhattanville College, November, 2012
- “HIV, Malaria, and Other Globally Emerging Infectious Diseases: Lessons Learned towards Completion of the UNAIDS Millennium Development Goals.” Senior Castle Scholars Honors Retreat, Manhattanville College, Feb. 2012
- “Ticks, Antifreeze, and Lyme Disease: The Role of Glycerol in the *B. burgdorferi* Enzootic Cycle.” Keynote Address. Manhattanville College’s 21st Annual High School Science Fair Competition (MASC). April 2011.

Presentations on Academic Support

- Dr. StrangeBoard: Or How I Learned to Stop Worrying and Love Online Rubrics. Center for Teaching, Learning, and Scholarship, Manhattanville College, March 2023

Successful Grant Submissions

- Federal Award ID IIA-1159099: “Characterizing the Function of Leptospiral Proteins in the Biology of Genus *Leptospira*.” Office of International Science and Engineering, National Science Foundation. Award total: \$159,222. June 2013-May 2015.
- Regeneron Outreach Support: Funding for the Westchester Undergraduate Research Conference (WURC). Award total: \$2,500 April 2023

Selected Awards & Honors

- Guest Editor: Journal of Visualized Experimentation (JOVE) Methods Collection: Culturing, Diagnostic, and Genetic Manipulation of Spirochetes. September 2021-December 2022.
- Faculty Advisor of the Year Award. Awarded by the Student Government Association, Manhattanville College. May 2020.
- Faculty Member of the Year Award. Awarded by the Student Government Association, Manhattanville College. April 2013.
- Martha Lucas Pate, Ph.D. Memorial Award. For demonstration of academic excellence and leadership in social and humane concerns in medicine, science, and health. May 2011.

Meredith Yeager, Ph.D.
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PROFESSIONAL APPOINTMENTS:

08/2022 – present Assistant Professor of Biology and Director of the Biomedical Sciences Graduate Program, Hood College, Frederick, MD

01/2002 – present Senior Principal Scientist and Scientific Director, Cancer Genomics Research Laboratory, Division of Cancer Epidemiology and Genetics, National Cancer Institute/Frederick National Laboratory for Cancer Research, Bethesda, MD

06/2021 – present Graduate Faculty, College of Science, George Mason University, Manassas, VA

10/2014 – present Adjunct Faculty, Institute for Genomics and Evolutionary Medicine, Temple University, Philadelphia, PA

05/2006 – 05/2011 Affiliate Faculty, School of Computational Sciences, George Mason University, Manassas, VA

11/2000 – 12/ 2001 Manager of Molecular Genetics, Biognosis U.S. Inc., Gaithersburg, MD.

04/1999 – 05/2003 Assistant Research Scientist, Department of Biology, University of Maryland, College Park, College Park, MD

EDUCATION AND TRAINING:

1998-1999 Postdoctoral Fellow, Neuroimmunology Section, Department of Neurology, The Washington University School of Medicine, St. Louis, MO

1996-1998 Ph.D. in Biology/Molecular Evolutionary Genetics, The Pennsylvania State University, University Park, PA
Thesis: "Peptide Binding Function and MHC Evolution"
Advisor: Dr. Austin Hughes

1994-1996 Ph.D. candidate in Genetics, The George Washington University, Washington, DC

1991-1995 M.S. in Biomedical Sciences, Hood College, Frederick, MD
Thesis: "Characterization of DMB Polymorphism"
Advisor: Dr. Mary Carrington

1985-1989 B.S. in Biology, Radford University, Radford, VA

HONORS AND AWARDS:

- 1995 National Institutes of Health Predoctoral Intramural Research Training Award
- 1998 Gordon Conference in Molecular Evolution/Sloan Foundation Travel Award
- 1998 Student Travel Award, Institute of Molecular Evolutionary Genetics, Penn State University
- 2005 SAIC-Frederick Outstanding Scientific Achievement Award – Doctoral/Postdoctoral
- 2007 SAIC-Frederick Outstanding Scientific Achievement Award – Team
- 2007 DCEG Special Achievement Award, GWAS
- 2010 SAIC-Frederick Norman P. Salzman Mentoring Award
- 2015 DCEG Special Appreciation Award
- 2017 Frederick National Laboratory for Cancer Research Outstanding Achievement Award
- 2018 National Cancer Institute Director’s Award

PROFESSIONAL ACTIVITIES:

American Society of Human Genetics; Society for Molecular Biology and Evolution

EDITORIAL BOARD:

2013 – present *Molecular Biology and Evolution*, Associate Editor

PEER-REVIEWED PUBLICATIONS:

1. Carrington M, **Yeager M**, Mann D (1993) Characterization of *HLA-DMB* polymorphism. *Immunogenetics* 38: 446-9
2. **Yeager M**, Hughes AL (1996) Interallelic recombination has not played a major role in the history of the *HLA-C* locus. *Immunogenetics* 44: 128-33
3. Hughes AL, **Yeager M**, Carrington M (1996) Peptide binding function and the paradox of HLA disease associations. *Immunol Cell Biol* 74: 444-8
4. **Yeager M**, Kumar S, Hughes AL (1997) Sequence convergence in the peptide-binding region of primate and rodent MHC class Ib molecules. *Mol Biol Evol* 14: 1035-41
5. Hughes AL, **Yeager M** (1997) Molecular evolution of the vertebrate immune system. *Bioessays* 19: 777-86

6. Hughes AL, **Yeager M** (1997) Coordinated amino acid changes in the evolution of mammalian defensins. *J Mol Evol* 44: 675-82
7. Hughes AL, **Yeager M** (1997) Comparative evolutionary rates of introns and exons in murine rodents. *J Mol Evol* 45: 125-30
8. Cadavid LF, Shufflebotham C, Ruiz FJ, **Yeager M**, Hughes AL, Watkins DI (1997) Evolutionary instability of the major histocompatibility complex class I loci in New World primates. *Proc Natl Acad Sci U S A* 94: 14536-41
9. Hughes AL, **Yeager M** (1998) Natural selection at major histocompatibility complex loci of vertebrates. *Annu Rev Genet* 32: 415-35
10. Hughes AL, **Yeager M** (1998) Natural selection and the evolutionary history of major histocompatibility complex loci. *Front Biosci* 3: d509-16
11. Hughes AL, **Yeager M** (1998) Comparative Evolutionary Rates of Introns and Exons in Murine Rodents. *J Mol Evol* 46: 497
12. **Yeager M**, Hughes AL (1999) Evolution of the mammalian MHC: natural selection, recombination, and convergent evolution. *Immunol Rev* 167: 45-58
13. Hughes AL, **Yeager M**, Ten Elshof AE, Chorney MJ (1999) A new taxonomy of mammalian MHC class I molecules. *Immunol Today* 20: 22-6
14. Hughes AL, **Yeager M** (1999) Coevolution of the mammalian chemokines and their receptors. *Immunogenetics* 49: 115-24
15. **Yeager M**, Carrington M, Hughes AL (2000) Class I and class II MHC bind self peptide sets that are strikingly different in their evolutionary characteristics. *Immunogenetics* 51: 8-15
16. Hughes AL, Packer B, Welch R, Bergen AW, Chanock SJ, **Yeager M** (2003) Widespread purifying selection at polymorphic sites in human protein-coding loci. *Proc Natl Acad Sci U S A* 100: 15754-7
17. Bergen AW, **Yeager M**, Welch R, Ganjei JK, Deep-Soboslay A, Haque K, van den Bree MB, Goldman D, Berrettini WH, Kaye WH (2003) Candidate gene analysis of the Price Foundation anorexia nervosa affected relative pair dataset. *Curr Drug Targets CNS Neurol Disord* 2: 41-51
18. Bergen AW, van den Bree MB, **Yeager M**, Welch R, Ganjei JK, Haque K, Bacanu S, Berrettini WH, Grice DE, Goldman D, Bulik CM, Klump K, Fichter M, Halmi K, Kaplan A, Strober M, Treasure J, Woodside B, Kaye WH (2003) Candidate genes for anorexia nervosa in the 1p33-36 linkage region: serotonin 1D and delta opioid receptor loci exhibit significant association to anorexia nervosa. *Mol Psychiatry* 8: 397-406
19. Peters U, Chatterjee N, **Yeager M**, Chanock SJ, Schoen RE, McGlynn KA, Church TR, Weissfeld JL, Schatzkin A, Hayes RB (2004) Association of genetic variants in the calcium-sensing receptor with risk of colorectal adenoma. *Cancer Epidemiol Biomarkers Prev* 13: 2181-6

20. Packer BR, **Yeager M**, Staats B, Welch R, Crenshaw A, Kiley M, Eckert A, Beerman M, Miller E, Bergen A, Rothman N, Strausberg R, Chanock SJ (2004) SNP500Cancer: a public resource for sequence validation and assay development for genetic variation in candidate genes. *Nucleic Acids Res* 32: D528-32
21. Lan Q, Mumford JL, Shen M, Demarini DM, Bonner MR, He X, **Yeager M**, Welch R, Chanock S, Tian L, Chapman RS, Zheng T, Keohavong P, Caporaso N, Rothman N (2004) Oxidative damage-related genes *AKR1C3* and *OGG1* modulate risks for lung cancer due to exposure to PAH-rich coal combustion emissions. *Carcinogenesis* 25: 2177-81
22. Eck P, Erichsen HC, Taylor JG, **Yeager M**, Hughes AL, Levine M, Chanock S (2004) Comparison of the genomic structure and variation in the two human sodium-dependent vitamin C transporters, *SLC23A1* and *SLC23A2*. *Hum Genet* 115: 285-94
23. De Roos AJ, Gold LS, Wang S, Hartge P, Cerhan JR, Cozen W, **Yeager M**, Chanock S, Rothman N, Severson RK (2006) Metabolic gene variants and risk of non-Hodgkin's lymphoma. *Cancer Epidemiol Biomarkers Prev* 15: 1647-53
24. Bernig T, Taylor JG, Foster CB, Staats B, **Yeager M**, Chanock SJ (2004) Sequence analysis of the mannose-binding lectin (*MBL2*) gene reveals a high degree of heterozygosity with evidence of selection. *Genes Immun* 5: 461-76
25. Bergen AW, **Yeager M**, Welch RA, Haque K, Ganjei JK, van den Bree MB, Mazzanti C, Nardi I, Fichter MM, Halmi KA, Kaplan AS, Strober M, Treasure J, Woodside DB, Bulik CM, Bacanu SA, Devlin B, Berrettini WH, Goldman D, Kaye WH (2005) Association of multiple *DRD2* polymorphisms with anorexia nervosa. *Neuropsychopharmacology* 30: 1703-10
26. Bonner MR, Rothman N, Mumford JL, He X, Shen M, Welch R, **Yeager M**, Chanock S, Caporaso N, Lan Q (2005) Green tea consumption, genetic susceptibility, PAH-rich smoky coal, and the risk of lung cancer. *Mutat Res* 582: 53-60
27. Garcia-Closas M, Malats N, Silverman D, Dosemeci M, Kogevinas M, Hein DW, Tardon A, Serra C, Carrato A, Garcia-Closas R, Lloreta J, Castano-Vinyals G, **Yeager M**, Welch R, Chanock S, Chatterjee N, Wacholder S, Samanic C, Tora M, Fernandez F, Real FX, Rothman N (2005) *NAT2* slow acetylation, *GSTM1* null genotype, and risk of bladder cancer: results from the Spanish Bladder Cancer Study and meta-analyses. *Lancet* 366: 649-59
28. Hou L, Chatterjee N, Huang WY, Baccarelli A, Yadavalli S, **Yeager M**, Bresalier RS, Chanock SJ, Caporaso NE, Ji BT, Weissfeld JL, Hayes RB (2005) *CYP1A1* Val462 and *NQO1* Ser187 polymorphisms, cigarette use, and risk for colorectal adenoma. *Carcinogenesis* 26: 1122-8
29. Huang WY, Chatterjee N, Chanock S, Dean M, **Yeager M**, Schoen RE, Hou LF, Berndt SI, Yadavalli S, Johnson CC, Hayes RB (2005) Microsomal epoxide hydrolase polymorphisms and risk for advanced colorectal adenoma. *Cancer Epidemiol Biomarkers Prev* 14: 152-7
30. Huang WY, Chow WH, Rothman N, Lissowska J, Llaca V, **Yeager M**, Zatonski W, Hayes RB (2005) Selected DNA repair polymorphisms and gastric cancer in Poland. *Carcinogenesis* 26: 1354-9

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Falciparum Positivity at Enrollment Are Independently Associated with Lower Risk for Endemic Burkitt Lymphoma in Uganda, Tanzania, Kenya, and Malawi. *Blood* 2022 Nov 15;140(1 Suppl):9314-9316.

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402. Lee OW, Rodrigues C, Lin SH, Luo W, Jones K, Brown DW, Zhou W, Karlins E, Khan SM, Baulande S, Raynal V, Surdez D, Reynaud S, Rubio RA, Zaidi S, Grossetête S, Ballet S, Lapouble E, Laurence V, Pierron G, Gaspar N, Corradini N, Marec-Bérard P, Rothman N, Dagnall CL, Burdett L, Manning M, Wyatt K, **Yeager M**, Chari R, Leisenring WM, Kulozik AE, Kriebel J, Meitinger T, Strauch K, Kirchner T, Dirksen U, Mirabello L, Tucker MA, Tirode F, Armstrong GT, Bhatia S, Robison LL, Yasui Y, Romero-Pérez L, Hartmann W, Metzler M, Diver WR, Lori A, Freedman ND, Hoover RN, Morton LM, Chanock SJ, Grünewald TGP, Delattre O, Machiela MJ. Targeted long-read sequencing of the Ewing sarcoma 6p25.1 susceptibility locus identifies germline-somatic interactions with EWSR1-FLI1 binding. *Am J Hum Genet* 2023 Feb 8. Epub 2023 Feb 8.
403. Kelly DE, Ramdas S, Ma R, Rawlings-Goss RA, Grant GR, Ranciaro A, Hirbo JB, Beggs W, **Yeager M**, Chanock S, Nyambo TB, Omar SA, Woldemeskel D, Belay G, Li H, Brown CD, Tishkoff SA. The genetic and evolutionary basis of gene expression variation in East Africans. *Genome Biol* 2023 Feb 24;24(1):35.

BOOK CHAPTERS:

1. **Yeager M**, Welch RA, Chanock SJ. 2008. Laboratory Analysis of Genetic Variation. In RA Kaslow, JM McNicholl, AVS Hill (Eds.) *Genetic Susceptibility to Infectious Diseases* (pp. 18-31)
2. Johnson RC, Winkler CA, **Yeager M**. Admixture Mapping for Disease Gene Discovery. 2016. In *Genome-Wide Association Studies: From Polymorphism to Personalized Medicine*

INVITED LECTURES:

- 08/97 “MHC Evolution, Peptide Binding and Implications in Disease Associations”. American Red Cross National Histocompatibility Laboratory, Baltimore, MD.
- 09/97 “Sequence convergence in the peptide binding region of primate and rodent MHC Class Ib molecules”. Integrative Biosciences Immunobiology Meeting, Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, Hershey, PA.
- 10/97 “Sequence convergence in the peptide binding region of primate and rodent MHC Ib molecules”. Departments of Biology/Biochemistry and Molecular Biology Joint Symposium, The Pennsylvania State University, PA.

- 10/97 “MHC involvement in autoimmune and infectious diseases”. Advanced Genetics Course, The Pennsylvania State University, University Park, PA.
- 02/98 “Class I and Class II MHC bind self peptide sets that are strikingly different in their evolutionary characteristics”. Department of Pathology and Laboratory Medicine, University of Wisconsin Madison.
- 03/98 “MHC Evolution, Peptide Binding and Implications in Disease Associations”. Neuroimmunology Section, Department of Neurology, Washington University School of Medicine, St. Louis, MO.
- 10/99 “MHC Evolution”. Evolution Course, University of Maryland, College Park, MD.
- 10/02 “The SNP500 Cancer Database and Candidate SNP Approach to Genetic Association Studies”. The Lennox K. Black Symposium- “Genomics and Bioinformatics for the Advancement of Clinical Science”, Thomas Jefferson University, Philadelphia, PA.
- 09/03 “High-throughput analysis for selection of SNPs: The importance of validation by sequence analysis and genotype concordance”. AACR Special Conference, SNPs, Haplotypes, and Cancer: Applications in Molecular Epidemiology, Key Biscayne, FL.
- 09/04 “Assessing Variation at Human Genes: The Core Genotyping Facility (CGF)”. SAIC-Frederick Basic Research Program Retreat, Annapolis, MD.
- 03/05 “High-throughput SNP Genotyping - Experience at The Core Genotyping Facility at the National Cancer Institute”. Molecular Diagnosis & Genotyping Facility, University of Pennsylvania School of Medicine, Philadelphia, PA.
- 11/05 “High-throughput SNP Genotyping - The Core Genotyping Facility at the National Cancer Institute”. Centers for Birth Defects Research and Prevention Annual Meeting, Gaithersburg, MD.
- 04/06 Oracle Life Science User Group Conference 2006, Boston, MA.
- 06/06 “Gene polymorphisms – origin and identification.” 9th International Conference on Long-Term Complications of Treatment of Children and Adolescents for Cancer. Ontario, Canada.
- 08/06 “SNP500Cancer: A public resource for sequence validation, assay development, and frequency analysis for genetic variation in candidate genes.” Cambridge Heathtech Institute’s Sixth Annual Microarray Data Analysis and Interpretation, Washington, DC.
- 11/06 “The importance of accurate DNA quantitation in the new genomics era.” Cohort Consortium Meeting, Bethesda, MD.
- 04/07 “Whole Genome Association and Replication Studies in Prostate Cancer” The Association of Biomolecular Resource Facilities (ABRF) Annual Meeting, Tampa, FL
- 09/07 “High throughput genotyping and sequencing and their role in cancer.” The Danish Research School in Molecular Cancer Research School Summer Event, Funen, Denmark.

- 10/07 “Common Variation at 8q24 and Prostate Cancer Risk” Cambridge Healthtech Institute’s Second International Exploring Next Generation Sequencing: Applications and Case Studies, Providence, RI.
- 10/08 “In Pursuit of GWAS Findings: Genotyping, Sequencing, and Beyond.” NIH Research Festival, Bethesda, MD
- 10/08 “In Pursuit of GWAS Findings: Genotyping, Sequencing, and Beyond.” 10th Annual Human Genome Variation Meeting, Toronto, Canada
- 11/08 “In Pursuit of GWAS Findings: Genotyping, Sequencing, and Beyond.” Sixth Functional Genomics of Critical Illness and Injury Symposium and US Critical Illness and Injury Trials Group Meeting, Bethesda, MD.
- 02/09 “Consideration of Genetic Diversity and Population Substructure in Whole Genome Association Studies of Complex Diseases.” The American Association for Cancer Research, The Science of Cancer Health Disparities, Carefree, AZ.
- 06/09 “Genome-wide association and follow-up studies in common cancers – breast and prostate.” United States Army Congressionally Directed Medical Research Programs, Frederick, MD.
- 08/09 “Genome-wide association studies in common diseases.” Mitre Corporation, Boston, MA.
- 03/10 “Genome-wide association studies in prostate cancer: A summary” Genitourinary Malignancies Center of Excellence Retreat, Natcher Auditorium, NIH
- 03/10 “Comprehensive cataloging of germline variation within regions identified in genome-wide association studies” CHI X Gen Congress, Now Generation Sequencing, Hilton San Diego Resort, San Diego, CA
- 04/10 “Comprehensive cataloging of regions identified in GWAS.” 101st AACR Annual Meeting, Washington Convention Center, Washington, DC
- 09/10 “Genome-wide association studies in cancer.” Cambridge Health Institute’s Inaugural Translation of the Cancer Genome meeting, ADAPT 2010: Accelerating Development & Advancing Personalized Therapy Congress Arlington, VA
- 09/10 “Genome-wide association studies in cancer: an update.” European Genomics Meeting-2010, Oriel College, University of Oxford, Oxford, UK
- 11/10 “Leveraging next-generation sequencing to identify genetic variants associated with cancer risk.” International Meeting of the Brazilian Association for Bioinformatics and Computational Biology, Ouro Preto, Brazil
- 05/11 “Challenges in the interpretation of multi-center GWAS.” GWAS 2011: Opportunities and Challenges, Dao Xiang Lou Hotel and Anhui Medical University, Anhui, China
- 06/11 “Ion Torrent’s PGM coupled with Fluidigm’s Access Array provides a multiplexed sample approach to rapid evaluation of novel genomic targets” Keystone Symposia on Molecular and Cellular Biology: Changing Landscape of the Cancer Genome, Boston MA

- 09/11 "GWAS and large-scale resequencing studies conducted within the US National Cancer Institute's Division of Cancer Epidemiology and Genetics" 20th Annual KOGO Conference: Whole Spectrum in Next Generation Genomics, Osong Health Technology Administration Complex, Osongsaengmyeong, Korea
- 09/11 "GWAS conducted within the US National Cancer Institute's Division of Cancer Epidemiology and Genetics" National Cancer Center, Gyeonggi-do, Korea
- 09/12 "Beyond GWAS: using SNP microarray data to detect somatic mosaicism." Illumina User Group Meeting: Advances in Genome Science. Bethesda, MD, September 2012.
- 11/12 "Useful On-Line Databases and Websites for Molecular Genetic Studies of Disease." NIH Genetic Epidemiology Course, Bethesda, MD
- 11/12 "The Aging Genome: Genetic Mosaicism and Its Relationship to Cancer." International Cancer Genome Conference 2012, Seoul, Korea, November 14-17, 2012.
- 11/12 "Current Perspectives in Genomics Research." Ion Torrent Training Workshop for University of Puerto Rico, Mayaguez, Puerto Rico
- 12/12 "Cancer Genomics Research Laboratory." SAIC-Frederick, Inc. Board of Directors, Frederick, MD.
- 2/13 "Current Perspectives in Genomics Research." Division of Cancer Epidemiology and Genetics (DCEG) Molecular Epidemiology Course; Genetic Studies in the General Population-Lecture 11, Bethesda, MD
- 2/13 "Current Perspectives in Genomics Research." Division of Cancer Epidemiology and Genetics (DCEG) Biostatistics Branch/Cancer Genomics Research Laboratory (BB/CGR) Genomics Course, Bethesda, MD
- 5/13 "Optimizing Tools in NGS and Bioinformatics Data Analysis to Understand Disease at the Genomic Level." NGS Translate, Cambridge, MA
- 6/13 "Current Perspectives in Genomics Research." Mid-Atlantic Directors and Staff of Scientific Cores; First Annual Meeting, Frederick, MD
- 8/13 "Next Generation Sequencing: Application to Cancer Prevention Research." 2013 NCI Summer Curriculum in Cancer Prevention; Molecular Prevention Course, Rockville, MD, August 6, 2013
- 11/13 "Detecting Somatic Mosaicism Using GWAS Data." Genomic Epidemiology Workshop-EPIGEN Brazil Project, Sao Paulo, Brazil
- 9/14 "Age-related Mosaic Loss of Chromosome Y in Cohort Studies." The 15th International Meeting on Human Genome Variation and Complex Genome Analysis (HGV 2014), Belfast, Ireland

- 5/15 "Genetic and Genomics Laboratory Tools and Approaches." NCI, DCEG, Radiation Epidemiology and Dosimetry Course, Rockville, MD.
- 6/15 "The Complexity of Genetic Susceptibility to Cancer." George Washington University Statistical Analysis Course, Rockville, MD
- 9/15 "HPV16 Variant Lineage Risk of CIN3+ is Modified by a Woman's Ancestry." 30th International Papillomavirus Conference and Clinical and Public Health Workshops (HPV 2015), Lisbon, Portugal
- 9/15 "The Plan for Comprehensive Genomic Characterization of Radiation-Related Thyroid Cancer in the Ukraine." European, Middle Eastern & African Society of Biopreservation & Biobanking (ESBB 2015), London, UK, September 30-October 2, 2015
- 11/15 "Population Genetics and Malaria-Resistance Genes: Uncovering the Genetic Risk Factors of Burkitt Lymphoma in Africa." AORTIC 2015 10th International Conference on Cancer in Africa, Marrakech, Morocco
- 2/16 "Basic Principles of Population Genetics Relevant to Studies of Genetic Susceptibility and Introduction to Genomics Including an Overview of Molecular Biology." NCI/DCEG/Molecular Epidemiology Course-Winter 2016, Rockville, MD.
- 2/16 "GWAS, QC, Imputation, and Basic Association Analyses." NCI/DCEG/Molecular Epidemiology Course-Winter 2016, Rockville, MD.
- 3/16 "Translating TCGA Approaches to the CGR." NCI/DCEG/Molecular Epidemiology Course-Winter 2016, Rockville, MD, March 2, 2016
- 3/17 "HPV16 genetic variability within women with multi-site infections, and large variability between women." Annual International Papillomavirus Conference, Capetown, South Africa
- 6/17 "Genome-wide association studies." Genetic Epidemiology Course, George Washington University, Washington, DC
- 10/17 "HPV16 isolate diversity within a woman, between women and over time of the infection." European Research Organization on Genital Infection and Neoplasia (EUROGIN), Amsterdam, Netherlands
- 2/18 "NCI-DCEG's Human Papillomavirus Genomics Project: gaining an understanding into the carcinogenicity of HPV16 and other high-risk types." George Washington University, Rockville, MD
- 6/18 "Genome-wide association studies." Genetic Epidemiology Course, George Washington University, Washington, DC
- 7/18 "Genomic studies conducted in the Division of Cancer Epidemiology and Genetics." Radiation Effects Research Foundation, Hiroshima, Japan

- 7/18 “NCI-DCEG’s Human Papillomavirus Genomics Project: gaining an understanding into the carcinogenicity of HPV16 and other high-risk types.” Hood College, Frederick, MD
- 12/18 “Whole-genome sequencing of HPV6 and HPV11.” European Research Organization on Genital Infection and Neoplasia (EUROGIN), Lisbon, Portugal.
- 5/19 “The neutral theory, human evolution, GWAS, and recent unanticipated findings.” Laboratory of Neurogenetics and the Laboratory of Comparative Behavioral Genomics, National Institute on Alcohol Abuse and Alcoholism, Rockville, MD.
- 9/19 “Genetic and Genomics Laboratory Tools and Approaches.” DCEG Radiation Epidemiology and Dosimetry Course 2019, National Cancer Institute (NCI) Division of Cancer Epidemiology and Genetics, Rockville, MD
- 10/19 “NCI-DCEG’s Human Papillomavirus Genomics Project: Methods and Insights into Viral Carcinogenesis.” National Cancer Institute (NCI) Division of Cancer Epidemiology and Genetics (DCEG) *H. pylori* Mini-Symposium, Rockville, MD
- 12/19 “The diversification of HPV16 is driven by ongoing immune avoidance-related positive selection.” European Research Organization on Genital Infection and Neoplasia (EUROGIN), Monaco, Monaco.
- 9/21 “Lack of transgenerational effects of ionizing radiation exposure in cleanup workers and evacuees of the Chernobyl accident.” 50th Anniversary of Biomedical Sciences Program, Hood College, Frederick, MD.
- 11/21 “Lack of transgenerational effects of ionizing radiation exposure in cleanup workers and evacuees of the Chernobyl accident.” IMTO University, St. Petersburg, Russia.
- 9/22 “Lack of transgenerational effects of ionizing radiation exposure in cleanup workers and evacuees of the Chernobyl accident.” Japanese Radiation Research Society Meeting, Osaka, Japan (virtual due to COVID travel restrictions)

- 1st Place, Poster Presentation. “*Borrelia burgdorferi* Glycerol-3-Phosphate Dehydrogenase (GlpD) is Important for Spirochete Maintenance in the Tick.”, New York Medical College 22nd Annual Graduate Student Research Forum, Valhalla, NY, April 2010
- 1st Place, Oral Presentation. “*Borrelia burgdorferi* Glycerol-3-Phosphate Dehydrogenase (GlpD) Is Important for Spirochete Maintenance in the Tick.”, New York Medical College 21st Annual Graduate Student Research Forum, Valhalla, NY, March 2009
- 2nd Place, Poster Presentation. “*Borrelia burgdorferi* Glycerol-3-Phosphate Dehydrogenase (GlpD) is Involved in Temperature-Dependent Stationary Phase Adaptation.” New York Medical College 20th Annual Graduate Student Research Forum, Valhalla, NY, March 2008

Professional Organizations

- Member, Council on Undergraduate Research May 2019-present
- Full Member, Sigma Xi Scientific Research Society Sept. 2011-present
- Member, American Society for Microbiology, New York City Branch June 2010-present
- Member, American Society for Microbiology Sept. 2006-present
- Member, New York Academy of Sciences Sept. 2006-present

Academic Committee Positions Held

- Co-Chair of Faculty Senate July 2023- present
- Interim Chair of Faculty Council Jan. 2023-June 2023
- Parliamentarian, Faculty Council Aug. 2022-Dec. 2022
- Co-Chair of the Advisory Budget Committee Sept. 2017-present
- Chair, Faculty Budget Committee Sept. 2017-June 2022
- Member, Board on Academic Standards, Manhattanville College Aug. 2015-June 2017
- Founder and Chair, Laboratory Safety Committee, Manhattanville College Aug. 2012-present
- Member, Institutional Review Board, Manhattanville College Aug. 2012-June 2013
- Co-Chair, Sustainability Committee, Manhattanville College Jan. 2012-June 2013
- Committee Member, Graduate School of Basic Medical Sciences Curriculum Committee New York Medical College Sept. 2008-May 2011
- Task Force Member, Middle States Accreditation Committee, New York Medical College Dec. 2008-Dec. 2009
- Student Advisor, Graduate Student Association, New York Medical College Sept. 2007-Nov. 2009
- Student Liaison for New York Medical College to New York Academy of Sciences Sept. 2007-Sept. 2009
- President, Graduate Student Association, New York Medical College Sept. 2006-Sept. 2007

Chemical Hygiene Officer Training

- OSHA 503: Update for General Industry Outreach Trainers. 18 hours. Rochester Institute of Technology. June 2020.
- DOT Hazardous Materials Transportation Refresher Training and Certification. Approximately 30 hours of refresher training. April 2016 and January 2019.
- OSHA 3095: Electrical Standards. 26 Hours. Rochester Institute of Technology. June 2019.
- OSHA 2225: Respiratory Protection. 26 Hours. Rochester Institute of Technology. June 2018.
- OSHA 501: Trainer Course in Occupational Safety and Health Standards for General Industry. Certificate Number: G-0065866. Rochester Institute of Technology, Rochester, NY. June 2016.
- OSHA 511 Training: Occupational Safety and Health Standards for the General Industry. Certificate Number: 000657. Rutgers School of Public Health. Piscataway, NJ. Dec. 2015
- 24 Hour HAZWOPER Training. Miller Environment Group. Certificate Number: 20130036-14720. Feb. 2013.
- “Hazardous Materials Transportation Training Modules, V5.1” 8 hour online training course. U.S. Department of Transportation. January 2013 (*initial training 2013, refreshed annually*)
- “Lab Waste Management.” 8 hour training course. Laboratory Safety Institute in Natick, MA. December 2012
- “How to Be a More Effective Chemical Hygiene Officer.” 8 hour training course. Laboratory Safety Institute in Natick, MA. July 2012

Skills

Languages: English (Native) · Spanish (Fluent) · French (Level A2 certified) · Greek (Proficient)

Bioinformatics: GRAPHPAD PRISM/ NCSS 2007 (statistical analysis software), DNASTAR/ ClustalW/ SWISS-MODEL/ 4Peaks/ SDS 2.1 (DNA/Protein sequence analysis), Axiovision 4, OlyVIA, Zeiss ZenBlue, ImageJ (microscopic image capture and image analysis), Reference Manager 11, Refworks (citation management), Mayakind v2.2.4 (animal management)

Safety training received: Animal safety and care, Asbestos awareness, Bloodborne pathogens safety, Electrical safety, Hazard communication standards, Fire safety, Emergency evacuation planning, Emergency response planning, Chemical awareness, Identification of reactive chemicals and other chemical hazards, Chemical safety, General laboratory safety, Hazardous materials transport, Resource Conservation and Recovery Act laboratory compliance, Chemical spill emergency response, Chemical exposure emergency response, Federal and institutional incident report completion, Personal protective equipment, Mercury spill clean-up, International safety and animal training, 24-hour HAZWOPER, OSHA 511, OSHA 501

Other: CPR/ AED certified

Community Involvement

- Faculty Advisor, Science Club and Tri-Beta Aug. 2022- present
- Founder and Member, Manhattanville College Organic Community Garden March 2012-present
- Faculty Advisor, Campus Billiards Club, Manhattanville College Nov. 2012-present
- Beta Beta Beta, National Biology Honor Society Dec. 2012-present
- Contributing Member, New York Philharmonic Jan. 2011-present
- Science Fair Judge, High School Division; Intel WESEF; NYCSEF; TriCounty, MASC Jan. 2005-present
- Psi Chi, Psychology National Honor Society Feb. 1999-present
- Member and Master Composter, Ossining Organic Community Garden Apr. 2010-Oct. 2012

Program Resource Requirements. Indicate all resources needed including the planned FTE enrollment, projected revenues, and estimated expenditures for the first three fiscal years of the program. Include reallocation of existing personnel and resources and anticipated or requested new resources. Second and third-year estimates should be in dollars adjusted for inflation. If the program is contract related, explain the fiscal sources and the year-to-year commitment from the contracting agency(ies) or party(ies). Provide an explanation of the fiscal impact of the proposed discontinuance to include impacts to faculty (i.e., salary savings, re-assignments).

College/University:

Program:

I. PLANNED STUDENT ENROLLMENT

| | FY 1 | | FY 2 | | FY 3 | | FY 4 | |
|--------------------------------------|------|-----------|------|-----------|------|-----------|------|-----------|
| | FTE | Headcount | FTE | Headcount | FTE | Headcount | FTE | Headcount |
| A. New enrollments to institution | 90 | 10 | 45 | 15 | 117 | 15 | 54 | 15 |
| B. Enrollment from existing programs | | | 90 | 25 | 45 | 30 | 117 | 30 |
| | 90 | 10 | 135 | 40 | 162 | 45 | 171 | 45 |

II. REVENUE

| | FY 1 | | FY 2 | | FY 3 | | FY 4 | |
|---|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| | On-going | One-time | On-going | One-time | On-going | One-time | On-going | One-time |
| 1. New Appropriated Funding Request | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2. Institution Funds | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3. Federal (e.g. grant, appropriation) | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4. New Tuition Revenues from Increased Enrollment | \$132,030 | \$0 | \$543,964 | \$0 | \$611,959 | \$0 | \$611,959 | \$0 |
| 5. Student Fees | \$2,330 | \$3,500 | \$9,320 | \$14,000 | \$10,485 | \$15,750 | \$10,485 | \$15,750 |
| 6. Other (e.g., Gifts, Program Revenue) | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Revenue | \$134,360 | \$3,500 | \$553,284 | \$14,000 | \$622,444 | \$15,750 | \$622,444 | \$15,750 |

Budget Note: I. A Enrollments are assumed to be full time; therefore FTE=headcount

III. EXPENDITURES

| | FY 1 | | FY 2 | | FY 3 | | FY 4 | |
|--|----------|----------|----------|----------|-----------|----------|-----------|----------|
| | On-going | One-time | On-going | One-time | On-going | One-time | On-going | One-time |
| A. Personnel Costs | | | | | | | | |
| 1. FTE (total for all personnel types) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2. Faculty | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3. Adjunct Faculty | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4. Grad Assts | \$88,000 | \$0 | \$91,960 | \$0 | \$95,920 | \$0 | \$99,880 | \$0 |
| 5. Research Personnel | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 6. Directors Administrators | \$1,500 | \$0 | \$1,500 | \$0 | \$1,500 | \$0 | \$1,500 | \$0 |
| 7. Administrative Support Personnel | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8. Fringe Benefits | \$2,666 | \$0 | \$3,986 | \$0 | \$2,903 | \$0 | \$3,022 | \$0 |
| 9. Other: | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Costs | \$92,166 | \$0 | \$0 | \$0 | \$100,323 | \$0 | \$104,402 | \$0 |

Budget Notes:

III.A.2. Faculty Salaries are increased by ____% each year

III.A.8. Fringe calculated as ____%

| | FY 1 | | FY 2 | | FY 3 | | FY 4 | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| | On-going | One-time | On-going | One-time | On-going | One-time | On-going | One-time |
| B. Operating Expenditures | | | | | | | | |
| 1. Travel | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2. Professional services | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3. Other services | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4. Communications | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 5. Materials & supplies | \$10,000 | \$0 | \$5,000 | \$0 | \$5,000 | \$0 | \$5,000 | \$0 |
| 6. Rentals | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7. Materials & goods used for product sale (e.g. fabrication auto repair) Please reflect revenue in II.6 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8. Marketing materials and advertising | \$1,000 | \$0 | \$1,000 | \$0 | \$1,000 | \$0 | \$1,000 | \$0 |
| 9. Miscellaneous: | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Operating Expenses | \$11,000 | \$0 | \$6,000 | \$0 | \$6,000 | \$0 | \$6,000 | \$0 |

Budget Note:

III.B.8. \$ ____ K of operating expense is provided for each new faculty line

| | FY 1 | | FY 2 | | FY 3 | | FY 4 | |
|---|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| | On-going | One-time | On-going | One-time | On-going | One-time | On-going | One-time |
| C. Capital Outlay | | | | | | | | |
| 1. Library Resources | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2. Equipment | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Capital Outlay | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| D. Capital Facilities Construction or Major Renovation | | | | | | | | |
| | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| E. Indirect Costs (overhead) | | | | | | | | |
| 1. Utilities | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2. Maintenance & repairs | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3. Other | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Indirect Costs | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL EXPENDITURES | \$103,166 | \$0 | \$138,500 | \$0 | \$106,323 | \$0 | \$110,402 | \$0 |
| Net Income (Deficit) | \$31,195 | \$3,500 | \$414,784 | \$14,000 | \$516,121 | \$15,750 | \$512,042 | \$15,750 |