DENTAL - GRADUATE ORAL BIOLOGY (GBIO)

GBIO 9511 Current Topics in Oral Health Research I
During this journal club students will meet regularly to discuss and critically evaluate published articles. This forum will allow students to learn about research and current innovative and significant topics in areas related to Oral Heath. Discussion will focus on research techniques, and application for evidence-based practice. Students will be expected to present at least twice during their time as MSOB students.
1-3 Credit Hours

GBIO 9512 Current Topics in Oral Health Research II
During this journal club students will meet regularly to discuss and critically evaluate published articles. This forum will allow students to learn about research and current innovative and significant topics in areas related to Oral Heath. Discussion will focus on research techniques, and application for evidence-based practice. Students will be expected to present at least twice during their time as MSOB students.
1-3 Credit Hours

GBIO 9513 Current Topics in Oral Health Research III
During this journal club students will meet regularly to discuss and critically evaluate published articles. This forum will allow students to learn about research and current innovative and significant topics in areas related to Oral Heath. Discussion will focus on research techniques, and application for evidence-based practice. Students will be expected to present at least twice during their time as MSOB students.
1-3 Credit Hours

GBIO 9514 Current Topics in Oral Health Research IV
During this journal club students will meet regularly to discuss and critically evaluate published articles. This forum will allow students to learn about research and current innovative and significant topics in areas related to Oral Heath. Discussion will focus on research techniques, and application for evidence-based practice. Students will be expected to present at least twice during their time as MSOB students.
1-3 Credit Hours

GBIO 9521 Fundamentals of Oral Biology I
Using a combination of evidence based current literature and lecture this course will focus on Basic concepts in cell and molecular biology as they relate to in bioengineering in oral health, host –pathogen interactions, relationship between systemic and oral biology, role of nutrition in oral heath, vaccines and oral health as well as oral microbiome.
2-5 Credit Hours

GBIO 9522 Fundamentals of Oral Biology II
Using a combination of evidence based current literature and lecture this course will focus on Basic concepts in cell and molecular biology as they relate to in bioengineering in oral health, host –pathogen interactions, relationship between systemic and oral biology, role of nutrition in oral heath, vaccines and oral health as well as oral microbiome.
3-6 Credit Hours

GBIO 9711 Oral Biology Seminar
Oral Biology Seminar
0.5-1.5 Credit Hour

GBIO 9712 Oral Biology Seminar Spring
Oral Biology Seminar Spring
0.5-1.5 Credit Hour

GBIO 9713 Oral Biology Seminar I
Oral Biology Seminar I
0.5-1.5 Credit Hour

GBIO 9714 Oral Biology Seminar II
Oral Biology Seminar II
0.5-1.5 Credit Hour

GBIO 9715 Oral Biology Seminar V
Oral Biology Seminar V
0.5-1.5 Credit Hour

GBIO 9716 Oral Biology Seminar VI
Oral Biology Seminar VI
0.5-1.5 Credit Hour

GBIO 9721 MS Research Thesis Practicum I
MS Research Thesis Practicum I
10-14 Credit Hours

GBIO 9722 MS Research Practicum
MS Research Practicum
10-12 Credit Hours

GBIO 9723 MS Research Thesis Practicum III
MS Research Thesis Practicum III
8-12 Credit Hours

GBIO 9724 MS Research Thesis Practicum IV
MS Research Thesis Practicum IV
8-12 Credit Hours

GBIO 9725 MS Research Thesis Practicum V
MS Research Thesis Practicum V - extension course
10-14 Credit Hours

GBIO 9731 Introduction to Systematic Reviews Fall
Introduction to Systematic Reviews for MSOB students, fall course
1-4 Credit Hours

GBIO 9732 Introduction to Biostatistics Spring
Introduction to Biostatistics for MSOB students, spring course
1.5-3.5 Credit Hours

GBIO 9741 Cellular and Molecular Biology
Basic principles of cell and molecular biology and general biochemistry.
3.5-5 Credit Hours

GBIO 9751 Hard Tissue Biology
Introduction to the oral cavity hard tissue structures and function.
2-4 Credit Hours

GBIO 9761 Gateway to Research: Finding Your Project Path
Gateway to Research is a semester-long course designed for students in the Master of Science in Biology program at Penn Dental Medicine. This course introduces students to the diverse research areas pursued by faculty at Penn Dental Medicine, including translational, clinical, and basic science research. Students will engage with faculty through weekly sessions to explore ongoing projects, methodologies, and opportunities for collaboration.
2-4 Credit Hours

GBIO 9791 MS Research Thesis Practicum Fall
MS Research Thesis Practicum Fall - this course is for standalone MSOB students.
Fall
21-23 Credit Hours

GBIO 9792 MS Research Thesis Practicum
MS Research Thesis Practicum Spring - this course is for standalone MSOB students.
Fall
21-23 Credit Hours