Oral Biology Curriculum

Course Lists

Required Courses (credits in parentheses): every Oral Biology student must complete the following courses:

YEAR 1 — FALL

- GSND 5200Q Introduction to Biomedical Sciences (5 credits)

YEAR 1 — SPRING

- GSND 5001Q Responsible Conduct of Research (1 credit)
- GSND 5345Q: Fundamentals of Data Science (2 credits)
- DENT5910Q Oral Biology Research Seminar (1 credit)
- 5225Q Bacteriology and Oral Infectious Diseases (3 credits)

YEAR 2 — FALL

- GSND 5135Q Research Design and Statistics (2 credits)
- GSND 0596Q Professional Skills I (1 credit)
- GSND 5006Q Professional Skills II (Grantsmanship Skills) (2 credits)

YEAR 2 — SPRING

- DENT 5310Q Oral Immunology (3 credits)*

YEAR 3, YEAR 4

- Thesis Research (9 credits every semester after candidacy until graduation)

** This course can be substituted with PATH 511AQ - Immunology A upon PhD mentor and course director approval.*

Elective Courses

Students should expect to enroll in 6-10 credits of elective courses during the first two years of their training program prior to the candidacy exam.

FALL

- DENT 7106Q — Dental Histology
- GSND 5140Q — Introduction to Structural Biology
- GSND 5220Q — Methods in Microscopic Imaging (also offered in Spring)
- PATH 5100Q — Cellular Pathology
- GSND 5113Q — Gene Expression
- MBGC 5075Q — Cell Death
- TIII 5620Q — Classical & 21st Century Pathogens
- CBMM 5200 — Developmental Biology & Stem Cells
- CBMM N5001 — Basic Histology

SPRING

- DENT 5085Q — Dental Biochemistry
- DENT 5025Q — Chemical Properties & Structures of Dental Materials
- GSND 5340Q — High Throughput Biomedical Data Analysis
- GSND 5220Q — Methods in Microscopic Imaging

Other elective courses could be selected from the approved SGS course list with approval of the PhD Mentor.