

Table of Curriculum

| Course Type | Course No. | Computer Code | Course Name | Lecture; Lab.; Credit (Assignment) | Semester | Note |
|------------------------|------------|--|---|------------------------------------|-------------|------|
| Basic Elective | MSE101 | 46.101 | The Human Body and Diseases | 3:0:3 | Spring-Fall | |
| | MSE501 | 46.501 | Biomedical Biochemistry | 3:0:3(3) | Spring | ⊙ |
| Elective major Courses | MSE502 | 46.502 | Biomedical Molecular Biology | 3:0:3(3) | Spring | ⊙ |
| | MSE503 | 46.503 | Biomedical Cell Biology I | 3:0:3(3) | Spring | ⊙ |
| | MSE504 | 46.504 | Biomedical Cell Biology II | 3:0:3(3) | Fall | ⊙ |
| | MSE505 | 46.505 | Biomedical Bioinformatics | 3:0:3(3) | Spring-Fall | ⊙ |
| | MSE506 | 46.506 | Current Topics of Biomedical Research | 3:0:3(3) | Spring | ⊙ |
| | MSE507 | 46.507 | General Clinical Medicine | 3:0:3(3) | Fall | ⊙ |
| | MSE508 | 46.508 | Cell Therapy | 3:0:3(3) | Fall | ⊙ |
| | MSE509 | 46.509 | Introduction to Global Medicine: Biosciences, Technologies, Disparities, Strategies | 3:0:3 | Fall | ⊙ |
| | MSE510 | 46.510 | Pathology of Laboratory Animals | 3:0:3 | Spring | ⊙ |
| | MSE512 | 46.512 | Cancer Genomics | 3:0:3 | Fall | ⊙ |
| | MSE513 | 46.513 | Therapeutic Protein Engineering | 3:0:3 | Spring | ⊙ |
| | MSE514 | 46.514 | RNA Biology | 3:0:3 | Fall | ⊙ |
| | MSE520 | 46.520 | Mucosal Immunology | 3:0:3 | Spring-Fall | ⊙ |
| | MSE524 | 46.524 | Experimental Animals | 3:0:3(6) | Fall | ⊙ |
| | MSE529 | 46.529 | Biology of Disease | 3:0:3 | Spring-Fall | ⊙ |
| | MSE530 | 46.530 | Molecular & Cellular Biology of Cancer | 3:0:3(3) | Fall | ⊙ |
| | MSE531 | 46.531 | Bioanalytical Technology | 3:0:3 | Fall | ⊙ |
| | MSE540 | 46.540 | Biomedical Imaging | 3:0:3 | Spring-Fall | ⊙ |
| | MSE545 | 46.545 | Stem Cell Biology | 3:0:3(3) | Spring | ⊙ |
| | MSE546 | 46.546 | Genomic Medicine | 3:0:3 | Fall | ⊙ |
| | MSE550 | 46.550 | In Vivo Imaging System | 3:0:3 | Spring-Fall | ⊙ |
| | MSE552 | 46.552 | Cognitive Neuroscience | 3:0:3(6) | Spring | ⊙ |
| | MSE553 | 46.553 | Advanced Cellular and Molecular Immunology | 3:0:3(3) | Fall | ⊙ |
| | MSE560 | 46.560 | Introduction to Basic Medical Sciences | 3:0:3 | Spring-Fall | ⊙ |
| | MSE580 | 46.580 | Introductory Programming for Biologists | 3:0:3 | Spring-Fall | ⊙ |
| | MSE591 | 46.591 | Special Topics in Introductory Biomedical Sciences | 3:0:3 | Spring-Fall | ⊙ |
| | MSE601 | 46.601 | Medical Science Experimental Techniques | 3:0:3(3) | Spring | |
| | MSE602 | 46.602 | Contemporary Seminar of Modern Medical Sciences I | 3:0:3(3) | Spring | |
| | MSE603 | 46.603 | Contemporary Seminar of Modern Medical Sciences II | 3:0:3(3) | Fall | |
| | MSE605 | 46.605 | Experiment for Translation Research | 0:9:3(3) | Spring | |
| MSE606 | 46.606 | Molecular Endocrinology | 3:0:3(3) | Fall | | |
| MSE607 | 46.607 | Clinical Functional Neuroimaging | 3:0:3(3) | Spring | | |
| MSE610 | 46.610 | Techniques of Laboratory Animal | 2:3:3(3) | Fall | | |
| MSE611 | 46.611 | Cellular and Molecular Immunology | 3:0:3(3) | Fall | | |
| MSE612 | 46.612 | Pathophysiology of Chronic Infectious Diseases | 3:0:3(3) | Spring | | |
| MSE614 | 46.614 | Vascular Biology | 3:0:3(3) | Fall | | |
| MSE620 | 46.620 | Introduction to Bio-optical Imaging System Instrumentation | 3:0:3 | Spring-Fall | | |

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|-------------|------------|---------------|--|------------------------------------|---------------------------|------|
| | MSE621 | 46.621 | Computational Neuroimaging | 3:0:3 | Spring | |
| | MSE622 | 46.622 | Cancer Biochemistry | 3:0:3(3) | Fall | |
| | MSE700 | 46.700 | Biomedical Communication | 3:0:3(3) | Spring | |
| | MSE701 | 46.701 | Special Topics in Biomedical Sciences I | 3:0:3 | Spring·Fall | |
| | MSE702 | 46.702 | Special Topics in Biomedical Sciences II | 3:0:3 | Spring·Fall | |
| | MSE703 | 46.703 | Special Topics in Biomedical Sciences III | 3:0:3 | Spring·Fall | |
| | MSE722 | 46.722 | Cell Signaling Networks | 3:0:3(6) | Fall | |
| | MSE801 | 46.801 | Special Topics in Biomedical Engineering I | 3:0:3 | Spring·Fall | |
| | MSE802 | 46.802 | Special Topics in Biomedical Engineering II | 3:0:3 | Spring·Fall | |
| | MSE803 | 46.803 | Special Topics in Biomedical Engineering III | 3:0:3 | Spring·Fall | |
| Research | MSE495 | 46.495 | Individual Research | 0:6:1 | Spring·Summer·Fall·Winter | |
| | MSE960 | 46.960 | M.S. Thesis Research | | Spring·Fall | |
| | MSE966 | 46.966 | M.S. Seminar | 1:0:1 | Spring·Fall | |
| | MSE980 | 46.980 | Ph.D. Thesis Research | | Spring·Fall | |
| | MSE986 | 46.986 | Ph.D. Seminar | 1:0:1 | Spring·Fall | |
| | MSE987 | 46.987 | Graduate Student Seminar | 1:0:1 | Spring·Fall | |

© : Course mutually recognized by undergraduate and graduate programs

※ Course classification, course title, and mutual recognition of credits may differ according to the effective year of the requirements.