Addendum: Degree Plans

Effective Date May 27, 2014

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Doctor of Medicine (MD) Program Degree Plan

Total required for graduation: 250 QH

Year 1:
HMTD 515 Foundations for Interprofessional Practice (2QH)
MBCH 502 Clinical Molecular Cell Biology (3.5QH)
MBCH 505 Biochemistry (6QH)
MBCH 508 Clinical Genetics (2QH)
MCBA 500 Clinical Anatomy (10QH)
MCBA 502 Histology (5QH)
MCBA 504 Embryology (3QH)
MCUR 502 Essentials of Clinical Reasoning (6QH)
MMTD 509 Epidemiology (2QH)
MMTD 510 Introduction to Bioethics & Health Law (2QH)
MNSC 501 Medical Neuroscience (7.5QH)
MOSA 500 Clinical Reflections I (1QH)
MPHY 500 Physiology (14QH)

Year 2:
MCMP 600 Foundations of Medical Pharmacology (9.5QH)
MCUR 602 Essentials of Clinical Reasoning (6QH)
MCUR 606 Clinical Skills (3QH)
MMIC 600 Microbiology & Immunology (13QH)
MMTD 601 Patient Safety (2QH)
MOSA 600 Clinical Reflections II (1QH)
MPAT 600 General & Systemic Pathology (12.5QH)
MPSY 601 Clinical Neuroscience (8QH)
Electives (3QH)

Year 3:
MEMG 702 Emergency Medicine Clerkship (6QH)
MFPM 701 Family Medicine/Primary Care Clerkship (9QH)
MMED 700 Medicine Clerkship (12QH)
MNEU 700 Neurology Clerkship (6QH)
MOBG 700 Obstetrics/Gynecology Clerkship (9QH)
MOSA 700 Clinical Reflections III (1QH)
MPED 700 Pediatrics Clerkship (9QH)
MPSY 700 Psychiatry Clerkship (9QH)

MSUR 700 Surgery Clerkship (12QH)

Year 4:
MOSA 805 Clinical Reflections IV (1QH)

Take one of the following 4-week Sub-Internships (6QH):
MMED 800 Internal Medicine Sub-Internship
MFPM 805 Family Medicine Sub-Internship
MPED 805 Pediatrics Sub-Internship
MEMG 800 Emergency Medicine Sub-Internship

32-weeks Electives (48QH):
12 weeks minimum intramural CMS electives
20 weeks maximum extramural
8 weeks maximum non-clinical
12 weeks maximum in any single specialty (except medicine or pediatrics)

Must Pass Objective Structured Clinical Skills Examination to Graduate
Must Pass USMLE Step 1, Step 2 CK, and Step 2 CS to Graduate

Clinical Nutrition (MS) Program Degree Plan

Total required for graduation: 42 QH

Core courses:
HNUT 596 Portfolio Evaluation (3QH)
HNUT 511 Nutrition in Chronic Disease (4QH)
HNUT 541 Prevention, Health Promotion and Wellness (3QH)
HNUT 554 Nutrition in Critical Care (3QH)
HNUT 504 Information and Health Literacy (3QH)
HNUT 526 Evaluating Research and Health Recommendations (4QH)
HNUT 585 Epidemiology and Biostatistics (3QH)
HNUT 506 Health Education Teaching Experience (1QH)
HNUT 532 Instructional Design for Health Education (3QH)
HNUT 505 Communication Strategies, Methods and Techniques (3QH)
HNUT 512 Leadership (3QH)
HNUT 513 Health and Wellness Coaching (3QH)
Electives (6QH)

Health Promotion and Wellness (MS) Program Degree Plan

Total required for graduation: 45 QH

HNUT 583 Independent Study in Health Promotion and Wellness (4QH)
HPHW 596 Portfolio Evaluation for Health Promotion and Wellness (1QH)
HNUT 506 Health Education Teaching Experience (1QH)

HNUT 510 Modern Nutrition (3QH)
HNUT 532 Instructional Design for Health Education (3QH)
HNUT 541 Prevention, Health Promotion and Wellness (3QH)
HPHW 610 Exercise Physiology (3QH)
HNUT 504 Information and Health Literacy (3QH)
HNUT 585 Epidemiology and Biostatistics (3QH)
HNUT 505 Communication Strategies, Methods and Techniques (3QH)
HNUT 512 Leadership (3QH)
HNUT 513 Health and Wellness Coaching (3QH)
HNUT 508 Cultural Dimensions of Health (3QH)
HNUT 542 Complementary Medicine and Dietary Supplements (3QH)
HNUT 555 Nutrition in the Lifecycle (3QH)
HNUT 576 Nutrition in Human Physical Performance (3QH)

Nutrition Education (MS) Program Degree Plan

Total required for graduation: 42 QH

Core courses:
HNUT 596 Portfolio Evaluation (3QH)
HNUT 511 Nutrition in Chronic Disease (4QH)
HNUT 541 Prevention, Health Promotion and Wellness (3QH)
HNUT 504 Information and Health Literacy (3QH)
HNUT 526 Evaluating Research and Health Recommendations (4QH)
HNUT 585 Epidemiology and Biostatistics (3QH)
HNUT 506 Health Education Teaching Experience (1QH)
HNUT 525 Assessment and Evaluation in Education (3QH)
HNUT 532 Instructional Design for Health Education (3QH)
HNUT 505 Communication Strategies, Methods and Techniques (3QH)
HNUT 512 Leadership (3QH)
HNUT 513 Health and Wellness Coaching (3QH)
Electives (6QH)

Certificate in Nutrition for Healthcare Professionals Program Plan

Total required for graduation: 12 QH

Core:
HNUT 510 Modern Nutrition (3QH)
HNUT 555 Nutrition in the Lifecycle (3QH)
and select two of the following courses:
HNUT 507 Nutrition in Health Aging (3QH)
HNUT 508 Cultural Dimensions of Health (3QH)
HNUT 541 Prevention, Health Promotion and Wellness (3QH)
HNUT 542 Complementary Medicine and Dietary Supplements (3QH)
HNUT 576 Nutrition in Human Physical Performance (3QH)

Entry-Level Doctor of Physical Therapy (DPT) Program Degree Plan

Total required for graduation: 161 QH

Year 1:
HMTD 515 Foundations for Interprofessional Practice (2QH)
HMTD 551 Leadership in the Health Care Environment (3QH)
HPTH 618 Orientation to Physical Therapy (3QH)
HPTH 619 Principles of Education (1QH)
HPTH 620 Clinical Skills I (5QH)
HPTH 622 Critical Inquiry I (4QH)
HPTH 623 Practice Issues I (1QH)
HPTH 630 Clinical Skills II (3QH)
HPTH 631 Clinical Skills III (3QH)
HPTH 634 Orthopedic Clinical Medicine (3QH)
HPTH 635 Kinesiology/Motor Control I (3QH)
HPTH 636 Kinesiology/Motor Control II (4QH)
HPTH 640 Clinical Skills IV (5QH)
HPTH 642 Critical Inquiry II (3QH)
HPTH 643 Practice Issues II (1QH)
HPTH 644 Neurological Clinical Medicine and Pharmacology (3QH)
HPTH 645 Clinical Physiology (6QH)
HPTH 646 Fundamentals of Physiology (4QH)
MCBA 501 Clinical Anatomy (10QH)
PBBS 504 Neuroscience (5QH)

Year 2:
HPTH 717 Clerkship I (6QH)
HPTH 720 Clinical Skills V (4QH)
HPTH 721 Clinical Skills VI (3QH)
HPTH 722 Critical Inquiry III (1QH)
HPTH 724 Advanced Clinical Medicine and Pharmacology (5QH)
HPTH 725 Advanced Regional Anatomy (2QH)
HPTH 737 Clerkship II (12QH)
HPTH 740 Clinical Skills VII (3QH)
HPTH 741 Pediatric Physical Therapy (4QH)
HPTH 742 Physical Therapy in the Critical Care Sector (2QH)
HPTH 743 Practice Issues III (1QH)
HPTH 744 Prosthetics/Orthotics (3QH)
HPTH 746 Special Topics in Physical Therapy (1QH)
HPTH 747 Cardiovascular and Pulmonary Physical Therapy Part I (2QH)
HPTH 748 Cardiovascular and Pulmonary Physical Therapy Part II (2QH)
HPTH 749 Critical Inquiry IV (1QH)
HPTH 823 Practice Issues IV (2QH)

Year 3:
HPTH 827 Clerkship III (10QH)

HPTH 837 Clerkship IV (12QH)
HPTH 843 Practice Issues V (1QH)
HPTH 848 Professional Practicum (12QH)

Transition Doctor of Physical Therapy (tDPT) Program Degree Plan

Total required for graduation: 42 QH

HHCM 522 Healthcare Policy and Delivery Systems (4QH)
HPPT 506 Evidence-Based Practice (3QH)
HPPT 720 Physical Therapy Examination: Screening for Disease (3QH)
HPPT 722 Advanced Clinical Practice (3QH)
HPPT 730 Pharmacology (3QH)
HPPT 732 Anatomic Imaging (3QH)

students will choose one of the following two options:
HPPT 870 Independent Study (3QH)
Electives (20QH)
OR
HPPT 880 Practicum (6QH)
Electives (17QH)

Interprofessional Healthcare Studies (PhD) Program Degree Plan

Total required for graduation: 60 QH

Research Component:

Coursework
HIPS 600 Introduction to Doctoral Studies (3QH)
HIPS 560 Critical Inquiry I – Research Design (3QH)
HIPS 561 Critical Inquiry II – Statistics (3QH)
HIPS 680 Proposal Development (3QH)
HIPS 562 Measurement Principles (3QH)

Fieldwork
HIPS 810 Dissertation Research (18QH)

Interprofessional Component:

Coursework
HIPS 501 Introduction to Interprofessional Healthcare Studies (3QH)
HIPS 711 Interprofessional Teams (3QH)
HIPS 601A Interprofessional Education Seminar (3QH)
Non-Health Professions Education track:
HIPS 601B Interprofessional Practice Seminar (3QH)

HIPS 601C Interprofessional Theory Seminar (3QH)
OR Health Professions Education track:
HIPS 721 Principles in Health Professions Education (3QH)
HIPS 723 Leadership in Health Professions Education (3QH)

Fieldwork
select two of the following:
HIPS 701 Practicum in Interprofessional Education (6QH)
HIPS 702 Practicum in Interprofessional Service Learning (6QH)
HIPS 703 Practicum in Interprofessional Healthcare Practice (6QH)

Interprofessional Healthcare Studies (DSc) Program Degree Plan

Total required for graduation: 60 QH

Research Component:

Coursework
HIPS 600 Introduction to Doctoral Studies (3QH)
HIPS 560 Critical Inquiry I – Research Design (3QH)
HIPS 561 Critical Inquiry II – Statistics (3QH)
HIPS 680 Proposal Development (3QH)
HIPS 562 Measurement Principles (3QH)

Fieldwork
HIPS 710 Dissertation Research (9QH)

Interprofessional Component:

Coursework
HIPS 501 Introduction to Interprofessional Healthcare Studies (3QH)
HIPS 711 Interprofessional Teams (3QH)
HIPS 601A Interprofessional Education Seminar (3QH)
Non-Health Professions Education track:
HIPS 601B Interprofessional Practice Seminar (3QH)
HIPS 601C Interprofessional Theory Seminar (3QH)
OR Health Professions Education track:
HIPS 721 Principles in Health Professions Education (3QH)
HIPS 723 Leadership in Health Professions Education (3QH)

Fieldwork
HIPS 701 Practicum in Interprofessional Education (6QH)
HIPS 702 Practicum in Interprofessional Service Learning (6QH)
HIPS 703 Practicum in Interprofessional Healthcare Practice (6QH)

Electives (3QH)

Psychology (PhD) Program Degree Plan

Total required for graduation: 238.5-239.5 QH

Core Courses
HMTD 515 Foundations for Interprofessional Practice (2QH)
HPCC 503 Cognitive and Behavioral Therapy: Child and Adolescent (4.5QH)
HPSC 510 Psychological Statistics I (5QH)
HPSC 511 Psychological Statistics II (4QH)
HPSC 515 Experimental Design and Program Evaluation (4QH)
HPSC 520 Descriptive Psychopathology (4.5QH)
HPSC 521 Theoretical Psychopathology (3QH)
HPSC 541 History and Systems (2QH)
HPSC 560 Cognition and Cognitive Assessment (4QH)
HPSC 574 Neuropsychological Models of Cognition and Emotion (3QH)
HPSC 575 Social Psychology (3QH)
HPSC 576 Essentials of Physiological Psychology and Behavioral Neuroscience (3QH)
HPSC 577 Socio and Cultural Basis of Behavior (4.5QH)
HPSC 664 Personality Assessment (4QH)
HPSC 668 Theories of Personality and Emotion (3QH)
HPSC 669 Theories of Counseling and Psychotherapy (4.5QH)
HPSC 690 Cognitive and Behavioral Interventions (5QH)
HPSC 750 Advanced Physiological Psychology Lab (1QH)
HPSC 754 Lifespan Developmental Psychology (4.5QH)
HPSC 755 Ethical Issues and Professional Standards in Clinical Psychology I (1QH)
HPSC 756 Ethical Issues and Professional Standards in Clinical Psychology II (3QH)
HPSC 784 Professional Seminar in Clinical Fundamentals (3QH)

Concentration Courses:

Neuropsychology (14QH total)
HPSC 567 Neuropsychological Assessment (4QH)
HPSC 503 Advanced Specialty Training Seminar: Neuropsychology (3QH) – Year 3
Neuropsychology students choose one of the following two courses:
HPSC 751 Health Psychology: Cognitive, Affective, and Physiological Bases for Behavior (4QH)
OR
HPSC 573 Health Psychology: Psychological Comorbidities of Physical Illness (4QH)
Electives (3QH)

Health Psychology (14QH total)
HPSC 751 Health Psychology: Cognitive, Affective, and Physiological Bases for Behavior (4QH)
HPSC 573 Health Psychology: Psychological Comorbidities of Physical Illness (4QH)
HPSC 502 Advanced Specialty Training Seminar: Health Psychology (3QH) – Year 3
Electives (3QH)

Psychopathology (13QH total)
HPSC 501 Advanced Specialty Training Seminar: Psychotherapy (3QH) – Year 3
Psychopathology students choose one of the following two courses:
HPSC 751 Health Psychology: Cognitive, Affective, and Physiological Bases for Behavior (4QH)
OR
HPSC 573 Health Psychology: Psychological Comorbidities of Physical Illness (4QH)
Electives (6QH)

Practica:
HPSC 800 Clinical Practicum (36QH)
HPSC 500 Clinical Practicum Supervision (3QH) – Year 1
HPSC 500 Clinical Practicum Supervision (3QH) – Year 2
HPSC 500 Clinical Practicum Supervision (3QH) – Year 4
HPSC 850 Research Practicum (21QH)
HPSC 890 Dissertation Research (36QH)
HPSC 891 Internship (48QH)

Biomedical Sciences (MS) Program Degree Plan

Total required for graduation: 50-53 QH

Core Courses:
GPHY 522 Topics in Physiology (5QH)
HIPS 502 Introduction to Interprofessional Healthcare (2QH)
MBCH 502 Clinical Molecular Cell Biology (3.5QH)
MBCH 505 Medical Biochemistry (6QH)
MNSC 501 Medical Neuroscience (7.5QH)
MPHY 500 Medical Physiology (14QH)

Certificate Tracks (students also obtain one of the following certificates):

Health Administration & Management: Business Emphasis
HHCM 508 Marketing Healthcare (4QH)
HHCM 509 Statistics for Health Administrators (3QH)
HHCM 516 Risk and Quality Management in Healthcare (3QH)
HHCM 551 Accounting and Financial Management in Healthcare (4QH)

Health Administration & Management: Leadership Emphasis
HHCM 520 Cultural Diversity and the Management of Healthcare Services (3QH)
HHCM 522 Healthcare Policy and Delivery Systems (4QH)
HHCM 524 Organizational Behavior and Human Resources (3QH)
HHCM 525 Strategic Planning and Leadership in Healthcare (3QH)

Health Administration & Management: Public Health Emphasis
HHCM 509 Statistics for Health Administrations (3QH)

HHCM 522 Healthcare Policy and Delivery Systems (4QH)
HHCM 530 Introduction to Public Health (4QH)
HHCM 630 Public Health Epidemiology (4QH)

Health Professions Education
Suggested courses:
HHPE 510 Learning Theories (3QH)
HHPE 512 Instructional Presentation Skills (3QH)
HHPE 535 Course Development (3QH)
HHPE 540 Classroom Assessment (3QH)

Nutrition
HNUT 510 Modern Nutrition (3QH)
HNUT 555 Nutrition in the Lifecycle (3QH)
and select two of the following courses:
HNUT 507 Nutrition in Health Aging (3QH)
HNUT 508 Cultural Dimensions of Health (3QH)
HNUT 542 Complementary Medicine and Dietary Supplements (3QH)
HNUT 576 Nutrition in Human Physical Performance (3QH)

Health Administration (MS) Program Degree Plan

Total required for graduation: 45 QH

HHCM 507 Healthcare Informatics (3QH)
HHCM 508 Marketing Healthcare (4QH)
HHCM 509 Statistics for Health Administrators (3QH)
HHCM 515 Healthcare Law (3QH)
HHCM 516 Risk and Quality Management in Healthcare (3QH)
HHCM 517 Management Ethics (3QH)
HHCM 521 Evidence-Based Management (3QH)
HHCM 522 Healthcare Policy and Delivery Systems (4QH)
HHCM 524 Organizational Behavior and Human Resources (3QH)
HHCM 525 Strategic Planning and Leadership in Healthcare (3QH)
HHCM 551 Accounting and Financial Management in Healthcare (4QH)
HHCM 590 Final Portfolio (3QH)
Electives (6QH)

Health Professions Education (MS) Program Degree Plan

Total required for graduation: 45QH

HHPE 510 Learning Theories (3QH)
HHPE 512 Instructional Presentations Skills (3QH)
HHPE 530 Curriculum Design (3QH)
HHPE 535 Course Development (3QH)

HHPE 540 Classroom Assessment (3QH)
HHPE 560 Managing Change in Educational Organizations (3QH)
HHPE 580 Research in Education (3QH)
HHPE 620 Program Evaluation and Accreditation (3QH)
HHPE 680 Teaching Practicum (3QH)
HHPE 685 Portfolio Presentation (3QH)
Electives (15QH)

Pathologists' Assistant (MS) Program Degree Plan

Total required for graduation: 123.5 QH

Year 1:
HAPA 535 Medical Terminology (1QH)
HAPA 540 Autopsy Pathology (2QH)
HAPA 540A Autopsy Pathology Lab (2QH)
HAPA 550 Seminar I (1QH)
HAPA 551 Seminar II (1QH)
HAPA 552 Seminar III (1QH)
HAPA 553 Seminar IV (1QH)
HAPA 560 Clinical Correlations I (3QH)
HAPA 560A Clinical Correlations I Lab (2QH)
HAPA 561 Clinical Correlations II (3QH)
HAPA 561A Clinical Correlations II Lab (2QH)
HAPA 562 Clinical Correlations III (5QH)
HAPA 562A Clinical Correlations III Lab (2QH)
HAPA 563 Clinical Correlations IV (5QH)
HAPA 563A Clinical Correlations IV Lab (2QH)
HMTD 515 Foundations for Interprofessional Practice (2QH)
HMTD 551 Leadership in the Healthcare Environment (3QH)
MCBA 501 Clinical Anatomy (10QH)
MPAT 600 General and Systemic Pathology (12.5QH)
PBBS 503 Structure and Function (11QH)
PBBS 504 Neuroscience (4QH)

Year 2:
HAPA 630 Anatomic Pathology Clerkship I (12QH)
HAPA 631 Anatomic Pathology Clerkship II (12QH)
HAPA 632 Anatomic Pathology Clerkship III (12QH)
HAPA 633 Anatomic Pathology Clerkship IV (12QH)

Physician Assistant Practice (MS) Program Degree Plan

Total required for graduation: 147 QH

Year 1:
HMTD 515 Foundations for Interprofessional Practice (2QH)
HMTD 551 Leadership Skills in Healthcare Environment (3QH)
HNUT 561 Clinical Nutrition for Health Professions I (1QH)
HPAS 500 Physician Assistant Professional Issues and Ethics (2QH)
HPAS 501 General Medicine and Infectious Disease I (9QH)
HPAS 502 Introduction to EKG (1QH)
HPAS 508 Interviewing and Medical Documentation (2QH)
HPAS 510 General Medicine and Infectious Disease II (9QH)
HPAS 512 Clinical Decision Making I (2QH)
HPAS 513 Physical Examination (4QH)
HPAS 515 Psychosocial Aspects of Patient Care (2QH)
HPAS 518 Emergency Medicine (2QH)
HPAS 519 Obstetrics and Gynecology (2QH)
HPAS 520 General Medicine and Infectious Disease III (9QH)
HPAS 522 Clinical Decision Making II (2QH)
HPAS 523 Clinical Procedures (3QH)
HPAS 525 Geriatrics (2QH)
HPAS 528 Research and Statistics (2QH)
HPAS 532 Interprofessional Case Collaborations (1QH)
HPAS 533 Interprofessional Case Collaborations (1QH)
HPAS 534 Interprofessional Case Collaborations (1QH)
HPAS 536 Clinical Laboratory for Health Professional (1QH)
HPAS 537 Population Medicine (1QH)
HPAS 538 Introduction to Clinical Medicine for the Physician Assistant (2QH)
HPAS 540 Pediatrics (2QH)
HPAS 600 Pharmacotherapy I (4QH)
HPAS 610 Pharmacotherapy II (3QH)
HPAS 620 Pharmacotherapy III (3QH)
HPAS 646 Advanced Physical Examination (2QH)
HPAS 650 Complementary Medicine (1QH)
MCBA 501 Clinical Anatomy (10QH)

Year 2:
HPAS 550 Internal Medicine (6QH)
HPAS 560 General Surgery (6QH)
HPAS 565 Family Medicine (6QH)
HPAS 570 Women’s Health (6QH)
HPAS 575 Pediatrics (6QH)
HPAS 580 Emergency Medicine (6QH)
HPAS 591 Elective Rotation I (6QH)
HPAS 592 Elective Rotation II (6QH)
HPAS 690 Master’s Project (8QH)

Psychology: Clinical Counseling (MS) Program Degree Plan

Total required for graduation: 90 QH (or 102.5 QH for research concentration)

Year 1
HMTD 515 Foundations for Interprofessional Practice (2QH)
HPCC 501 Ethical Issues and Standards for Professional Counselors (4.5QH)
HPCC 502 Diagnostic Interviewing and Report Writing (4QH)
HPCC 503 Cognitive and Behavioral Therapy – Child and Adolescent (4.5QH)
HPCC 505 Personality Assessment in Counseling (4.5QH)
HPSC 520 Descriptive Psychopathology (4.5QH)
HPSC 577 Socio and Cultural Foundations of Behavior (4.5QH)
HPSC 690 Cognitive and Behavioral Interventions (5QH)
HPSC 669 Theories of Counseling and Psychotherapy (4.5QH)

Year 2
HPCC 600 Substance Abuse Assessment and Treatment (4.5QH)
HPCC 601 Group Dynamics and Counseling (4.5QH)
HPCC 602 Career Counseling and Development (4.5QH)
HPCC 603A Practicum/Internship and Seminar I (5QH)
HPCC 603B Practicum/Internship and Seminar II (5QH)
HPSC 668 Theories of Personality and Emotion (3QH)
HPSC 754 Lifespan Developmental Psychology (4.5QH)
HPSC 783 Family Systems and Therapy (4.5QH)

Concentration-Specific Courses

Standard (16.5QH):
HPCC 500 Research Methods for Counselors (4.5QH)
Electives (12QH)

Research Concentration (29QH):
HPSC 510 Psychological Statistics I (5QH)
HPSC 515 Experimental Design and Program Evaluation I (4QH)
HPSC 850 Research Practicum (14QH)
Electives (6QH)

Psychology: Clinical Psychology (MS) Program Degree Plan

Total required for graduation: 90 QH

Core Courses:
HMTD 515 Foundations for Interprofessional Practice (2QH)
HPCC 503 Cognitive and Behavioral Therapy: Child and Adolescent (4.5QH)
HPSC 510 Psychological Statistics I (5QH)
HPSC 511 Psychological Statistics II (4QH)
HPSC 515 Experimental Design and Program Evaluation (4QH)

HPSC 520 Descriptive Psychopathology (4.5QH)
HPSC 560 Cognition and Cognitive Assessment (4QH)
HPSC 574 Neuropsychological Models of Cognition and Emotion (3QH)
HPSC 576 Essentials of Physiological Psychology and Behavioral Neuroscience (3QH)
HPSC 669 Theories of Counseling and Psychotherapy (4.5QH)
HPSC 690 Cognitive and Behavioral Interventions (5QH)
HPSC 750 Advanced Physiological Psychology Lab (1QH)
HPSC 755 Ethical Issues and Professional Standards in Clinical Psychology I (1QH)
HPSC 784 Professional Seminar in Clinical Fundamentals (3QH)
HPSC 664 Personality Assessment (4QH)
HPSC 668 Theories of Personality and Emotion (3QH)
HPSC 754 Lifespan Developmental Psychology (4.5QH)

Practica:
HPSC 800 Clinical Practicum (12QH)
HPSC 850 Research Practicum (12QH)
HPSC 500 Clinical Practicum Supervision (3QH) – Year 1
HPSC 500 Clinical Practicum Supervision (3QH) – Year 2

Certificate in Health Administration Program Plan

Total required for graduation: 12-16QH

Four course individualized plan of study agreed upon with advisor from among Health Administration courses. Suggested possible plans of study appear below.

Public Health Emphasis:
HHCM 509 Statistics for Health Administrators (3QH)
HHCM 522 Healthcare Policy and Delivery Systems (4QH)
HHCM 530 Introduction to Public Health (4QH)
HHCM 630 Public Health Epidemiology (4QH)

Risk Management and Health Insurance:
HHCM 507 Healthcare Informatics (3QH)
HHCM 516 Risk and Quality Management in Healthcare (3QH)
HHCM 518 Insurance Dimensions (3QH)
HHCM 551 Accounting and Financial Management in Healthcare (4QH)

Diversity, Health Literacy, and Global Health:
HHCM 507 Healthcare Informatics (3QH)
HHCM 510 Global Health (3QH)
HHCM 520 Cultural Diversity and the Management of Healthcare Services (3QH)
HNUT 504 Information and Health Literacy (3QH)

Certificate in Health Professions Education Program Plan

Total required for graduation: 12 QH

HHPE 510 Learning Theories (3QH)
HHPE 512 Instructional Presentation Skills (3QH)
HHPE 535 Course Development (3QH)
HHPE 540 Classroom Assessment (3QH)

Doctor of Pharmacy (PharmD) Program Degree Plan

Total required for graduation: 192.5 QH

Year 1:
HMTD 515 Foundations for Interprofessional Practice (2QH)
MMTD 510 Introduction to Bioethics & Health Law (2QH)
YPHP 500 Introduction to Pharmacy Practice (1QH)
YPHP 504 Health Care Systems (2QH)
YPHP 506 Pharmacy Skills Lab I (2QH)
YPHP 507 Pharmacy Skills Lab II (2QH)
YPHP 508 Pharmacy Skills Lab III (1QH)
YPHP 510 Self-Care and Non-Prescription Medications (3QH)
YPHP 515 Introductory Pharmacy Practice Experience I & II (2QH)
YPHP 517 Introductory Pharmacy Practice Experience III & IV (4QH)
YPHS 501 Pharmaceutics I (3QH)
YPHS 502 Pharmaceutics II (2QH)
YPHS 503 Pharmaceutics III (3QH)
YPHS 504 Biochemical Principles for Pharmacy (4QH)
YPHS 505 Medical Literature Evaluation (1QH)
YPHS 506 Medicinal Chemistry (2QH)
YPHS 507 Microbiology & Immunology (7QH)
YPHS 510 Fundamentals in Physiology I (4QH)
YPHS 511 Fundamentals in Physiology II (4QH)

Year 2:
PBBS 601 Pharmacology (9QH)
YPHP 505 Research & Statistics (3QH)
YPHP 604 Clinical Pharmacokinetics and Pharmacodynamics (2QH)
YPHP 606 Pharmacy Skills Lab IV (2QH)
YPHP 607 Pharmacy Skills Lab V (2QH)
YPHP 608 Pharmacy Skills Lab VI (2QH)
YPHP 615 Introductory Pharmacy Practice Experience V & VI (4QH)
YPHP 617 Introductory Pharmacy Practice Experience VII (2QH)
YPHP 620 Pharmacotherapy I (4QH)
YPHP 621 Pharmacotherapy II (4QH)
YPHP 622 Pharmacotherapy III (4QH)

YPHP 625 Applications of Drug Information (1QH)
YPHS 600 Basic Pharmacokinetics and Pharmacodynamics (3QH)
YPHS 609 Introduction to Pharmacogenomics and Molecular Biology (2QH)
YPHS 610 Advanced Medicinal Chemistry (2QH)
YPHS 620 Life-Long Learning Seminar (1QH)

Year 3:
HIPS 551 Leadership in the Healthcare Environment (3QH)
YPHP 703 Pharmacy Management (2QH)
YPHP 706 Pharmacy Skills Lab VII (1QH)
YPHP 707 Pharmacy Skills Lab VIII (1QH)
YPHP 708 Pharmacy Skills Lab IX (1QH)
YPHP 709 Health Care and Pharmacy Law (3QH)
YPHP 710 Pharmacotherapy IV (3QH)
YPHP 711 Pharmacotherapy V (3QH)
YPHP 712 Pharmacotherapy VI (3QH)
YPHP 713 Pharmacogenomics (1QH)
YPHP 714 Pharmacoeconomics (2QH)
YPHP 715 Introductory Pharmacy Practice Experience VIII, IX, X, & XI (3.5QH)
YPHP 716 Interprofessional Case Collaborations (1QH)
YPHP 717 Interprofessional Case Collaborations (1QH)
YPHP 718 Interprofessional Case Collaborations (1QH)
YPHS 704 Pharmaceutical Biotechnology (2QH)
YPHS 709 Epidemiology (2QH)
YPHS 720 Life-Long Learning Seminar (1QH)
Electives (6QH)

Year 4:
YPHP 801 Advanced Pharmacy Practice Experience – Acute Care (9QH)
YPHP 802 Advanced Pharmacy Practice Experience – Ambulatory Care (9QH)
YPHP 803 Advanced Pharmacy Practice Experience – Community Pharmacy (9QH)
YPHP 804 Advanced Pharmacy Practice Experience – Hospital (9QH)
and two electives (18QH total) from one or both of the following:
YPHP 805 Advanced Pharmacy Practice Experience – Elective (9QH)
YPHP 806 Advanced Pharmacy Practice Experience – Non-Patient Care Elective (9QH)

Doctor of Podiatric Medicine (DPM) Program Degree Plan

Total required for graduation: 298 QH

Year 1:
MCBA 500 Clinical Anatomy (10QH)
PBBS 502 Biochemistry (6QH)
PBBS 503 Structure and Function (11QH)
PBBS 504 Neuroscience (5QH)
PBBS 505 Microbiology and Immunology (7QH)

PBBS 506 Lower Extremity Anatomy (8QH)
PAPB 501 Understanding and Implementing Clinical Research (1QH)
PAPB 502 Biomechanics (6QH)
PMED 502 Podiatric Medicine and Surgery (4QH)
PMED 503 Podiatric Clinical Skills and Reasoning I (2QH)
HMTD 515 Foundations for Interprofessional Practice (2QH)
MCUR 502 Essentials of Clinical Reasoning I (6QH)

Year 2:
PBBS 601 Pharmacology (9QH)
PBBS 602 Pathology (11QH)
MCUR 602 Essentials of Clinical Reasoning II (5QH)
PAPB 605 Sports Medicine (2QH)
PAPB 606 Pediatric Orthopedics (4QH)
PSUR 602 General Surgical Principles and Anesthesiology (10QH)
PRAD 602 Podiatric Radiology (6QH)
PMED 605 Podiatric Clinical Skills and Reasoning II – Workshop (4QH)
PMED 606 Podiatric Clinical Skills and Reasoning II – Clinic (5QH)
PMED 602 Peripheral Vascular Disease (2QH)
PMED 603 Dermatology (2QH)
PMED 608 Medicine (8QH)
PAPB 604 Orthotic Laboratory Workshop (1QH)
PDPM 600 Basic Biomedical Science Comprehensive Exam (1QH)

Year 3:
PSUR 706 Lower Extremity Traumatology (2QH)
PMED 709 Community Health, Ethics and Professional Responsibility (3QH)
PAPB 705 Podiatric Orthopedics Capstone Clinical Experience – Workshop (7QH)
PMED 707 Podiatric Medicine Capstone Clinical Experience – Workshop (9QH)
PRAD 702 Podiatric Radiology Capstone Clinical Experience – Workshop (9QH)
PSUR 704 Podiatric Surgery Capstone Clinical Experience – Workshop (9QH)
PMED 708 Podiatric Clinical Skills and Reasoning III – Clinic (4QH)

Year 4:
PACE 801 Stroger (Cook County) Hospital Core Podiatry Clerkship (8QH)
PACE 802 James A. Lovell Federal Health Care Center Core Podiatry Clerkship (8QH)
PACE 803 Jesse Brown VA Core Podiatry Clerkship (8QH)
PACE 804 Hines VA Core Podiatry Clerkship (8QH)
PACE 805 Scholl College of Podiatric Medicine Clerkship (4QH)
PDPM 800 Clinical Competency Exam (1QH)
PMED 801 Medicine Clerkship (8QH)
PMED 802 Emergency Medicine Clerkship (8QH)
PSUR 802 General Surgery Clerkship (8QH)

PELE 700 & 800 Third and Fourth Year Electives (56QH)

Biochemistry and Molecular Biology (MS) Program Degree Plan

Total required for graduation: 45 QH

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Advanced Coursework:
GBCH 543 Enzyme Structure and Mechanism (3QH)
GBCH 544 Physical Biochemistry (3QH)
GBCH 600 Biochemical Pathways (9QH)
Additional advanced coursework if indicated by Research Committee

Repeated Courses:
Students must take the following course every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GBCH 532 Biochemistry and Molecular Biology Journal Club (1QH per academic year)
GBCH 533 Biochemistry and Molecular Biology Seminar (1QH per academic year)

Research/Thesis:
Students must take the following course every quarter that they are enrolled after selection of specific degree program:
GBCH 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GBCH 530 Master's Thesis in Biochemistry (10-12QH per quarter)
OR
GBCH 531 Master's Research in Biochemistry (10-12QH per quarter)

Biochemistry and Molecular Biology (PhD) Program Degree Plan

Total required for graduation: 135 QH

Core Courses:
GIGP 500 First-Year Lab Rotations (4QH)
GIGP 501 Molecular Cell Biology I (6QH)
GIGP 502 Molecular Cell Biology II (4QH)
GIGP 503 Systems Lectures (2QH)

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)

GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Other GIGP Courses:
GIGP 505 Cellular and Molecular Developmental Biology (4QH)

Advanced Coursework:
GBCH 543 Enzyme Structure and Mechanism (3QH)
GBCH 544 Physical Biochemistry (3QH)
GBCH 600 Biochemical Pathways (9QH)
Additional advanced coursework as indicated by Research Committee

Repeated Courses:
Students must take the following course every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GBCH 532 Biochemistry and Molecular Biology Journal Club (1QH per academic year)
GBCH 533 Biochemistry and Molecular Biology Seminar (1QH per academic year)

Dissertation Research:
Students must take one of the following courses every quarter that they are enrolled after selection of specific degree program:
GBCH 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GBCH 699 Post-Candidacy Doctoral Research Activities (10-12QH per quarter)

Cell Biology and Anatomy (MS) Program Degree Plan

Total required for graduation: 45 QH

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Advanced Coursework
If indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)

Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GCBA 532 Cell Biology and Anatomy Journal Club (1QH per academic year)
GCBA 533 Cell Biology and Anatomy Seminar (1QH per academic year)

Thesis Research:
Students must take the following course every quarter that they are enrolled after selection of specific degree program:
GCBA 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GCBA 530 Master's Thesis in Cell Biology and Anatomy (10-12QH per quarter)

Cell Biology and Anatomy (PhD) Program Degree Plan

Total required for graduation: 135 QH

Core Courses:
GIGP 500 First-Year Lab Rotations (4QH)
GIGP 501 Molecular Cell Biology I (6QH)
GIGP 502 Molecular Cell Biology II (4QH)
GIGP 503 Systems Lectures (2QH)

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Other GIGP Courses:
GIGP 505 Cellular and Molecular Developmental Biology (4QH)

Advanced Coursework:
GCBA 600 Advanced Cell Biology (2QH)
GBCA 604 Techniques in Cell Biology (2QH)
Additional advanced coursework as indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GCBA 532 Cell Biology and Anatomy Journal Club (1QH per academic year)
GCBA 533 Cell Biology and Anatomy Seminar (1QH per academic year)

Dissertation Research:
Students must take one of the following courses every quarter that they are enrolled after selection of specific degree program:
GCBA 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GCBA 699 Post-Candidacy Doctoral Research Activities (10-12QH per quarter)

Cellular and Molecular Pharmacology (MS) Program Degree Plan

Total required for graduation: 45 QH

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Advanced Coursework:
If indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GCMP 502 Journal Club in Cellular and Molecular Pharmacology (1QH per academic year)
GCMP 509 Seminars in Cellular and Molecular Pharmacology (1QH per academic year)

Thesis Research:
Students must take the following course every quarter that they are enrolled after selection of specific degree program:
GCMP 599 Pre-Candidacy Research Activities (10-12QH per quarter)

Cellular and Molecular Pharmacology (PhD) Program Degree Plan

Total required for graduation: 135 QH

Core Courses:
GIGP 500 First-Year Lab Rotations (4QH)
GIGP 501 Molecular Cell Biology I (6QH)
GIGP 502 Molecular Cell Biology II (4QH)
GIGP 503 Systems Lectures (2QH)

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)

GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Other GIGP Courses:
GIGP 506 Systems Physiology (4QH)
GIGP 512 Neuroscience (5QH)

Advanced Coursework:
GCMP 601 Neuropharmacology I (2QH)
GCMP 602 Neuropharmacology II (2QH)
GCMP 605 Pharmacology Core (6QH)
GCMP 700 Teaching in Pharmacology (1QH)
Additional advanced coursework as indicated by Research Committee

Electives (2QH minimum)
students must choose at least one of the following:
GNSC 600 Neurophysiology (2QH)
GNSC 606 Neurodegeneration (2QH)
GNSC 607 Neuronal Signaling (2QH)

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GCMP 502 Journal Club in Cellular and Molecular Pharmacology (1QH per academic year)
GCMP 509 Seminars in Cellular and Molecular Pharmacology (1QH per academic year)

Dissertation Research:
Students must take one of the following courses every quarter that they are enrolled after selection of specific degree program:
GCMP 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GCMP 699 Post-Candidacy Doctoral Research Activities (10-12QH per quarter)

Microbiology and Immunology (MS) Program Degree Plan

Total required for graduation: 45 QH

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Advanced Coursework:
If indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GMIC 532 Microbiology and Immunology Journal Club (1QH per academic year)
GMIC 533 Seminar in Microbiology and Immunology (1QH per academic year)

Thesis Research:
Students must take the following course every quarter that they are enrolled after selection of specific degree program:
GMIC 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GMIC 530 Master's Thesis in Cell Biology and Anatomy (10-12QH per quarter)

Microbiology and Immunology (PhD) Program Degree Plan

Total required for graduation: 135 QH

Core Courses:
GIGP 500 First-Year Lab Rotations (4QH)
GIGP 501 Molecular Cell Biology I (6QH)
GIGP 502 Molecular Cell Biology II (4QH)
GIGP 503 Systems Lectures (2QH)

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Other GIGP Courses:
GIGP 505 Cellular and Molecular Developmental Biology (4QH)

Advanced Coursework:
GMIC 600A Medical Microbiology and Immunology I (4QH)
GMIC 600B Medical Microbiology and Immunology II (4QH)
GMIC 605 Molecular Biology Techniques (2QH)
Additional advanced coursework as indicated by Research Committee

Electives (5QH minimum):
students must choose at least two of the following:
GMIC 503 Virology (4QH)
GMIC 560 Advanced Immunology (3QH)
GMIC 606 Cancer Biology and Signaling (2QH)

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GMIC 532 Microbiology and Immunology Journal Club (1QH per academic year)
GMIC 533 Seminar in Microbiology and Immunology (1QH per academic year)

Dissertation Research:
Students must take one of the following courses every quarter that they are enrolled after selection of specific degree program:
GMIC 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GMIC 699 Post-Candidacy Doctoral Research Activities (10-12QH per quarter)

Neuroscience (MS) Program Degree Plan

Total required for graduation: 45 QH

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Advanced Coursework:
If indicated by Research Committee

Repeated Courses (Regular Neuroscience Track):
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GNSC 553 Neuroscience Journal Club (1QH per academic year)
GNSC 504 Neuroscience Seminar (1QH per academic year)

Repeated Courses (Neuropharmacology Track):
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GCMP 502 Journal Club in Cellular and Molecular Pharmacology (1QH per academic year)
GCMP 509 Seminars in Cellular and Molecular Pharmacology (1QH per academic year)

Thesis Research:
Students must take the following course every quarter that they are enrolled after selection of specific degree program:
GNSC 599 Pre-Candidacy Research Activities (10-12QH per quarter)

Neuroscience (PhD) Program Degree Plan

Total required for graduation: 135 QH

Core Courses:
GIGP 500 First-Year Lab Rotations (4QH)
GIGP 501 Molecular Cell Biology I (6QH)
GIGP 502 Molecular Cell Biology II (4QH)
GIGP 503 Systems Lectures (2QH)

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Other GIGP Courses:
GIGP 506 Systems Physiology (4QH)
GIGP 512 Neuroscience (5QH)

Regular Neuroscience Track

Advanced Coursework:
GCMP 601 Neuropharmacology I (2QH)
GCMP 602 Neuropharmacology II (2QH)
GNSC 505 Human Brain Dissection (1QH)
GNSC 570 Neuroscience Teaching Assistant (4QH)
GNSC 600 Neurophysiology (2QH)
GNSC 605 Techniques in Microscopy (1QH)
GNSC 606 Neurodegeneration (2QH)
GNSC 607 Neuronal Signaling (2QH)
Additional advanced coursework as indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GNSC 553 Neuroscience Journal Club (1QH per academic year)
GNSC 504 Neuroscience Seminar (1QH per academic year)

OR Neuropharmacology Track

Advanced Coursework:
GCMP 601 Neuropharmacology I (2QH)
GCMP 602 Neuropharmacology II (2QH)
GNSC 600 Neurophysiology (2QH)
GNSC 606 Neurodegeneration (2QH)
GNSC 607 Neuronal Signaling (2QH)
GCMP 605 Pharmacology Core (6QH)
GCMP 700 Teaching in Pharmacology (1QH)
Additional advanced coursework as indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GCMP 502 Journal Club in Cellular and Molecular Pharmacology (1QH per academic year)
GCMP 509 Seminars in Cellular and Molecular Pharmacology (1QH per academic year)

Dissertation Research:
Students must take one of the following courses every quarter that they are enrolled after selection of specific degree program:
GNSC 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GNSC 699 Post-Candidacy Doctoral Research Activities (10-12QH per quarter)

Physiology and Biophysics (MS) Program Degree Plan

Total required for graduation: 45 QH

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Advanced Coursework:
GPHY 522 Topics in Physiology (5QH)
Additional advanced coursework if indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GMTD 711 Physiology and Biophysics Journal Club (1QH per academic year)
GPHY 505 Physiology and Biophysics Seminar (1QH per academic year)

Thesis Research:
Students must take the following course every quarter that they are enrolled after selection of specific degree program:
GPHY 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GPHY 620 Master's Research in Physiology (10-12QH per quarter)

Physiology and Biophysics (PhD) Program Degree Plan

Total required for graduation: 135 QH

Core Courses:
GIGP 500 First-Year Lab Rotations (4QH)
GIGP 501 Molecular Cell Biology I (6QH)
GIGP 502 Molecular Cell Biology II (4QH)
GIGP 503 Systems Lectures (2QH)

Specialty Courses:
GIGP 507 Art of Scientific Presentations (2QH)
GIGP 508 Ethics and Regulatory Issues in Biomedical Research (2QH) – *every five years*
GIGP 510 Computer Applications in Biomedical Research (2QH)
GIGP 514 Principles in Experimental Design and Biostatistics (3QH)

Other GIGP Courses:
GIGP 506 Systems Physiology (4QH)

Advanced Coursework:
GPHY 500 Medical Physiology (14QH)
GPHY 534 Teaching Methods (4QH)
Additional advanced coursework as indicated by Research Committee

Repeated Courses:
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled:
GMTD 709 Molecular and Cellular Sciences Seminar Series (1QH per academic year)
Students must take the following courses every Fall, Winter, and Spring quarter that they are enrolled after selection of specific degree program:
GMTD 711 Physiology and Biophysics Journal Club (1QH per academic year)
GPHY 505 Physiology and Biophysics Seminar (1QH per academic year)

Dissertation Research:
Students must take one of the following courses every quarter that they are enrolled after selection of specific degree program:
GPHY 599 Pre-Candidacy Research Activities (10-12QH per quarter)
OR
GPHY 699 Post-Candidacy Doctoral Research Activities (10-12QH per quarter)