PHARMACY INTEGRATED SCIENCES (PHARMIS)

PHARMIS 110 Foundations I (14.5 Units) Summer
Instructor(s): Nancy C. Sambol, Katherine Y. Yang
Prerequisite(s): none
Restrictions: restricted to 1st year Pharm.D. students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Foundations I is an integrated course that provides foundational concepts which will serve as the basis for content that will be taught in all subsequent preclinical courses. The content of this course spans all levels of pharmacy practice including the therapeutic sciences, health care policy and management, and evidence-based health care. A key emphasis of this course is to lay the foundation for the development of compassionate critical thinkers and transformative leaders in healthcare.

School: Pharmacy
Department: Pharmaceutical Chemistry
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 111 Cardiovascular Science & Therapeutics (11.5 Units) Fall
Instructor(s): Jaekyu Shin
Prerequisite(s): None
Restrictions: This course is restricted to pharmacy students.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

This Cardiovascular Integrated Theme course focuses on the medical treatment of 4 cardiovascular diseases (ischemic heart disease, dyslipidemia, heart failure, and arrhythmias) by integrating related basic and clinical sciences as well as behavioral/social/administrative sciences. It also explores knowledge gap in inquiry classes. The course concludes with a Synthesis week for reflection, exploration of career-options, and integration with the Foundations I course content.

School: Pharmacy
Department: Clinical Pharmacy
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 112 Respiratory Science & Therapeutics (9.5 Units) Winter
Instructor(s): Leslie C Floren
Prerequisite(s): None
Restrictions: Restricted to 1st year Pharm.D students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

This is an integrated course focused on pharmacologic/non-pharmacologic approaches to tobacco cessation, medical treatment of 5 common diseases, and conditions involving the respiratory system. This is done by integrating related basic, clinical, and behavioral/social/administrative sciences. It also explores knowledge gaps in inquiry classes. The course concludes with a Synthesis week for reflection, exploration of career-options, and integration with previous course content.

School: Pharmacy
Department: Pharmaceutical Chemistry
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
PHARMIS 113 Renal Science and Therapeutics (6 Units) Spring
Instructor(s): Igor Mitrovic
Prerequisite(s): None
Restrictions: PharmD 1st year students.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This integrated theme course focuses on the pharmaceutical interventions available in the medical treatment of hypertension and chronic kidney disease by integrating related basic and clinical sciences as well as behavioral/social/administrative sciences. It also explores knowledge gaps through inquiry sessions. The course predominantly focuses on the practice of drug dosing adjustments needed in renal dysfunction and renal replacement therapy.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 114 Gastrointestinal Science and Therapeutics (8 Units) Spring
Instructor(s): Cathi Dennehy
Prerequisite(s): None
Restrictions: 1st year PharmD students.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This integrated theme course focuses on the pharmaceutical interventions available in the medical treatments of inflammatory bowel disease, irritable bowel syndrome, liver disease, and gastrointestinal reflux and peptic ulcer disease. Pharmaceutical self-care as well as the basics of nutrition are also introduced in this course. It also explores knowledge gaps through inquiry sessions.

School: Pharmacy
Department: Pharmaceutical Chemistry
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 115 Foundations II (3 Units) Summer
Instructor(s): Sharon L Youmans
Prerequisite(s): None
Restrictions: Restricted to second year PharmD students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Foundations II is an integrated course that provides foundational concepts which will serve as the basis for content that will be taught in all subsequent preclinical courses for the second year of the PharmD curriculum. The content of this course spans all levels of pharmacy practice including the therapeutic sciences, health care policy and management, and evidence-based health care.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 116 Endocrine Science and Therapeutics (9.5 Units) Summer
Instructor(s): Candy Tsourounis
Prerequisite(s): None
Restrictions: Restricted to second year PharmD students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This integrated theme course focuses on the pharmaceutical interventions available in the medical treatments of diabetes, thyroid and adrenal disorders. Pharmaceutical self-care are also introduced in this course. It also explores knowledge gaps through inquiry sessions.

School: Pharmacy
Department: Pharmaceutical Chemistry
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
PHARMIS 117 Neuroscience and Therapeutics (14.5 Units) Fall
Instructor(s): Rupa Tuan, Stephanie L Hsia
Prerequisite(s): None
Restrictions: Limited to second year PharmD students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This integrated theme course focuses on the pharmaceutical interventions available in the medical treatments of stroke, epilepsy, pain, insomnia, anxiety disorders, major depressive disorder, schizophrenia, Alzheimer's disease, Parkinson's disease, and alcohol/opioid/substance use disorders. It also explores knowledge gaps through inquiry sessions.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 118 Oncology Science and Therapeutics (5.5 Units) Winter
Instructor(s): Janel Long-Boyle
Prerequisite(s): None
Restrictions: Limited to second year PharmD students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

This integrated theme course focuses on the role of the clinical pharmacist in the treatment of a patient requiring chemotherapy or immunotherapy as treatment (malignant and non-malignant disease). It also explores knowledge gaps through inquiry sessions.

School: Pharmacy
Department: Pharmaceutical Chemistry
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 119 Infectious Disease Science and Therapeutics (8 Units) Winter
Instructor(s): Conan MacDougall
Prerequisite(s): None
Restrictions: Limited to second year PharmD students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This integrated theme course focuses on antimicrobial regimen selection, antimicrobial stewardship, and the pharmaceutical interventions available in the treatment of respiratory tract infections, urinary tract infections, skin and soft tissue infections, fungal infections, CNS infections, GI infections, sepsis and septic shock, HIV infection, viral hepatitis, viral infections, and tuberculosis. It also explores knowledge gaps through inquiry sessions.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

PHARMIS 120A Discovery Groups Research Block (5 Units) Spring
Instructor(s): Susan M. Miller, Fran Aweeka
Prerequisite(s): None.
Restrictions: Restricted to second year PharmD students
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

This course is taking place during a concentrated 5 week period where students will focus on data collection and interpretation to address the scientific aims for their discovery projects. Projects are done as group projects and students will have completed several 3-hour development sessions with their faculty advisors prior to this 5 week period.

School: Pharmacy
Department: Clinical Pharmacy
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
PHARMIS 120B  Intensive Discovery Research Project  (12 Units)  Spring
Instructor(s):  Fran Aweeka, Susan M. Miller
Prerequisite(s):  None.
Restrictions:  Restricted to 2nd year PharmD students
Activities:  Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion
This course is taking place during a concentrated 11 week period where students will focus on data collection and interpretation to address the scientific aims for their Discovery Projects. Projects are done as group projects and students will have completed several 3-hour development sessions with their faculty advisors prior to this 11 week period.

School: Pharmacy
Department: Clinical Pharmacy
May the student choose the instructor for this course?  No
Does enrollment in this course require instructor approval?  Yes
Course Grading Convention:  P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course:  No
Is this a web-based online course?  No
Is this an Interprofessional Education (IPE) course?  No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?  No

PHARMIS 121  Discovery Project Final Analysis and Completion  (2 Units)  Spring
Instructor(s):  Susan M. Miller, Fran Aweeka
Prerequisite(s):  None.
Restrictions:  Restricted to 3rd year PharmD students
Activities:  Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion
This course provides students time to finalize data analysis for their Discovery Projects, write their manuscripts/reports & prepare their presentations. Students are responsible for working independently and/or with their Discovery Project groups to set up meetings with research advisors in order to complete work on their projects & final presentations. Students will give oral presentations describing their Discovery Projects the week after their last spring APPE rotation & before graduation.

School: Pharmacy
Department: Clinical Pharmacy
May the student choose the instructor for this course?  No
Does enrollment in this course require instructor approval?  No
Course Grading Convention:  P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course:  No
Is this a web-based online course?  No
Is this an Interprofessional Education (IPE) course?  No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?  No