



14/FAL Selected Topics courses

ART-371-1 Advanced Photography (3cr.) Smith
 W 6-8:45pm cap 12

The course will cover advanced camera and image editing techniques, aesthetics and composition, presentation, and photographic history. Students will have the opportunity to pursue individual projects in addition to regular photographic assignments and assignment critiques. Students will be expected to improve and build upon the skills learned in Introduction to Digital Photography.

BIO-371-1 Computational Biology (4cr.) Doyle
 M/W/F 10:00-11:25am cap 12

Broad overview of computational biology/bioinformatics with a significant problem-solving component, including hands-on practice using computational tools to solve a variety of biological problems. Topics may include: database searching, sequence alignment, gene prediction, RNA and protein structure prediction, construction of phylogenetic trees, comparative and functional genomics. Students will understand the current scope of bioinformatics research, become familiar with commonly used biological databases and software tools, and will be able to select the appropriate data/tools for their research question. Additionally, students will understand the role of computational methods/bioinformatics in the scientific method and will be able to properly evaluate results obtained from bioinformatics analyses. Students will be familiar with the challenges and basic techniques for handling large datasets.

IST-371-1 Mobile Application Development (3cr.) Engebretson
 M/W/F 11:00-11:50am cap 12

In this course, students will work through the process of analyzing, designing, and implementing an application on a mobile platform – specifically an Android-based smartphone. The first half of the course will be a workshop environment in which each student is guided through the creation of a sample app. The second half of the course will involve each student creating a unique app. As a result of the experiences in this course, students will further develop their problem-solving and communication skills, and build skills allowing them to develop mobile applications (specifically for Android-based phones) using current development tools (specifically Eclipse and the Androd SDK). *Prerequisite IST-146*

IST-371-2 User Management & Support (3cr.) Ward
 TH 6:00-9:00pm cap 12

In this course, students will (a) learn about PC hardware and system maintenance procedures, (b) learn installation procedures, dealing with legacy systems, creating and using emergency repair tools, and managing external devices, (c) learn real-world duties by shadowing a technology professional as part of their course requirements, (d) learn different types of software tools that will be required for them to be successful, and (e) learn tips and tricks to remotely manage client machines and effectively work with end users. *Prerequisite: IST 252*

PSY 271-1 Lifespan Development (3 cr.) Homa
 T/TH 1-2:15 cap 25

A study of human development from conception to death. Students who successfully complete the course will demonstrate their understanding of physical, social-emotional, and cognitive development across the lifespan, the research techniques used to study development; and the practical applications of developmental research. *Prerequisite PSY-117 or EDU-211*