

# CELL BIOL, STEM CELLS & DEVELOPMENT (CSDV)

**CSDV 7000 - Cells, Stem Cells, and Development: Advanced Topics Discussion (1 Credit)**

This course is a student-led paper discussion focusing on advanced topics pertaining to cell biology, stem cells, and developmental biology. Students will select, present, and discuss primary articles on diverse topics within these fields. Restriction: Students in the CSD program only, 2nd year and beyond.

Grading Basis: Satisfactory/Unsatisfactory w/IP  
Repeatable. Max Credits: 6.

A-GRAD Restricted to graduate students only.  
Typically Offered: Fall, Spring.

**CSDV 7100 - Advanced Writing Workshop (1 Credit)**

This course is a student-led writing workshop focusing on developing writing skills through submission, editing, and discussion of drafts. Draft types will be chosen by the students enrolled and will include manuscripts, these, and documents related to career development. Students must have completed/passed their comprehensive exam in respective program; priority to CSDV PhD students.

Grading Basis: Satisfactory/Unsatisfactory w/IP  
Typically Offered: Fall, Spring.

**CSDV 7605 - Stem Cells and Development: An Integrated Approach (3-4 Credits)**

Integrative introductory course incorporating the related fields of Cell Biology/Developmental Biology/Stem Cells. Through lectures, contemporary literature discussions, student presentations, enrollees will gain a sophisticated understanding of the biological concepts/experimental approaches underlying current understanding of cell, developmental, and stem cell biology. Pre-Requisite: IDPT 7806

Grading Basis: Letter Grade  
Repeatable. Max Credits: 4.

A-GRAD Restricted to graduate students only.  
Typically Offered: Spring.

**CSDV 7606 - Critical Analysis of Research in CSD (3 Credits)**

First-year students will learn to critically evaluate scientific literature in preparation for writing and critiquing research grant proposals. Primary literature will focus on cell and developmental biology related to CSDV 7605. Each session concludes with written mini-proposals and peer critiques. For CSDV & BSP first year students. If possible, limit to CSDV-PHD and BMSC-PHD plans. Else: Prerequisite: IDPT 7806 & 7810; Corequisite: CSDV 7605

Grading Basis: Letter Grade  
Typically Offered: Spring.

**CSDV 7607 - Genetics of Development, Disease, and Regeneration (2 Credits)**

Course participants will read, present and discuss scientific literature addressing topics in developmental, disease, and regenerative genetics. The course will be organized into 4 blocks, with each block focusing on one topic. Prerequisite - CSDV 7605

Grading Basis: Letter Grade  
Typically Offered: Spring.

**CSDV 7650 - Research: CSDV (1-5 Credits)**

Research work in cell biology, stem cells and development. Prereq: Consent of the instructor.

Grading Basis: Letter Grade with IP  
Repeatable. Max Credits: 10.

A-GRAD Restricted to graduate students only.  
Typically Offered: Fall, Spring, Summer.

**CSDV 7670 - Advanced Topics: CSDV (2 Credits)**

Spring/Summer, 2019 Course is an introduction to concepts and practice of organ and tissue modeling using adult stem cell organoid culture systems. Lectures/article reviews will be balanced with a significant, hands-on lab component to gain experience in organoid culture techniques. Prereq: IDPT 7806, 7810

Grading Basis: Letter Grade  
Repeatable. Max Credits: 7.

A-GRAD Restricted to graduate students only.  
Typically Offered: Fall, Spring, Summer.

**CSDV 7675 - Practical Teaching Experience in CSDV (1 Credit)**

Students will be paired with a CSD faculty mentor to develop a class session for IDPT 7801 courses directed by CSD faculty, CSDV 7605 or CSDV 7670 (depending on student interest and faculty availability). Each session will include a practice presentation and post-session critique. Open to CSDV students in Year 2+. Prerequisite: CSDV 7605; 2nd year+ CSDV-PhD students only

Grading Basis: Satisfactory/Unsatisfactory w/IP  
Typically Offered: Fall, Spring.

**CSDV 7676 - Practical Mentoring Experience in CSDV (1 Credit)**

This course will train students in effective mentoring skills for a research lab setting. Class meetings will be discussion-based, with topics including project design, communication, conflict resolution, creating equitable and inclusive mentoring relationships, and more.

Grading Basis: Satisfactory/Unsatisfactory w/IP  
Typically Offered: Summer.

**CSDV 7677 - Science Communication in the Time of COVID (1 Credit)**

Science communication is important for most careers in science. In this class, we will focus on communicating science to the general public through oral presentations, humor (Science Riot workshop), discussions, and written articles. During this unusual year, our outreach efforts will be focused on the Covid-19 vaccines.

Grading Basis: Satisfactory/Unsatisfactory w/IP  
Typically Offered: Summer.

**CSDV 7850 - Independent Study in Cell Biology, Stem Cells and Development (1-5 Credits)**

Independent Study is to allow students to take professional school course for credit or to gain a defined expertise with faculty mentor other than thesis advisor. Consent of faculty member offering the independent study and Program Director required. Prereq: IDPT 7806, 7807, 7808, 7809 (BIOM Science Core Courses), and CSDV 7605.

Grading Basis: Letter Grade  
Repeatable. Max Credits: 15.

A-GRAD Restricted to graduate students only.  
Typically Offered: Fall, Spring, Summer.

**CSDV 8990 - Doctoral Thesis (1-10 Credits)**

Doctoral Thesis work in Cell biology, Stem Cells and Development. Prereq: Consent of Instructor.

Grading Basis: Letter Grade with IP

A-GRAD Restricted to graduate students only.  
Additional Information: Report as Full Time.  
Typically Offered: Fall, Spring, Summer.