DEVELOPMENTAL AND STEM CELL BIOLOGY (DEV STMCEL)

DEV STMCEL 215 Laboratory Rotation (3-8 Units) Fall, Winter, Spring, Summer
Instructor(s): Staff
Prerequisite(s): None.

Restrictions: For graduate students enrolled in the DSCB Program.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects
Research experience in the laboratory of DSCB faculty members. Rotations will be six weeks each (two in one term and one in another). Students can select the laboratory of any faculty member within the DSCB Graduate Program.

School: Graduate Division
Department: Developmental And Stem Cell Biology Program
May the student choose the instructor for this course? Yes
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: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes

DEV STMCEL 216 Journal Club (1 Units) Fall, Winter, Spring
Instructor(s): Daniel E Wagner, Todd G. Nystul
Prerequisite(s): None.

Restrictions: None.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion
Participation in the Developmental Biology Journal Club and Stem Cell Biology Journal Club, which cover current research publications in developmental and stem cell biology. Each student must contribute regularly and present a research paper on at least one occasion per quarter. Presentations will be evaluated by fellow students, postdocs, and faculty. Course culminates with an annual student-run Symposium.

School: Graduate Division
Department: Developmental And Stem Cell Biology Program
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: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes

DEV STMCEL 217 Seminar Series (1 Units) Fall, Winter, Spring
Instructor(s): Brian L. Black
Prerequisite(s): None.
Restrictions: None.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion
Seminar series covering research in developmental and stem cell biology. Each student must participate regularly and presentations will be critically reviewed by students in group discussions under supervision by faculty or guest lecturers.

School: Graduate Division
Department: Developmental And Stem Cell Biology Program
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: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes

DEV STMCEL 250 Research (1-8 Units) Fall, Winter, Spring, Summer
Instructor(s): Staff
Prerequisite(s): Students must have completed prior laboratory rotations.

Restrictions: None.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects
Dissertation research in a Developmental & Stem Cell Biology (DSCB) laboratory.

School: Graduate Division
Department: Developmental And Stem Cell Biology Program
May the student choose the instructor for this course? Yes
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: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes
DEV STMCEL 257 Developmental and Stem Cell Biology (4 Units) Fall

_Instructor(s):_ Julie B Sneddon, Jeffrey O Bush

**Prerequisite(s):** Previous or concurrent enrollment in graduate level cell biology.

**Restrictions:** None.

**Activities:** Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

A course emphasizing the fundamental concepts of stem cell biology and development. The interrelated themes of pluripotency, differentiation, organogenesis, regeneration, patterning and morphogenesis will be approached through the lens of the organism, with emphasis on what different model systems teach us about the evolution of development. It will comprise case studies organized in coordinated mini-units, through which concepts, cellular behaviors and molecular mechanisms will be explored.

**School:** Graduate Division
**Department:** Developmental And Stem Cell Biology Program

_May the student choose the instructor for this course?_ No

_Do enrollment in this course require instructor approval?_ Yes

_Course Grading Convention:_ Letter Grade

_Graduate Division course:_ Yes

_Do this a web-based online course?_ No

_Do this an Interprofessional Education (IPE) course?_ No

_May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?_ Yes

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DEV STMCEL 270 Special Topics in Developmental & Stem Cell Biology (3 Units) Spring

_Instructor(s):_ Staff

**Prerequisite(s):** None. Completion of first-year curriculum in Developmental & Stem Cell Biology or other experimental biology graduate programs is helpful but not essential.

**Restrictions:** Biomedical Sciences graduate students and other graduate and professional students with interests in DSCB. Permission from instructor required.

**Activities:** Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Course offerings will focus on literature of a current important area of Development & Stem Cell biology research. Students will be expected to read assigned papers critically before class and to present and discuss papers in class. Students will also be expected to write and/or present a brief research proposal based upon their reading.

**School:** Graduate Division
**Department:** Developmental And Stem Cell Biology Program

_May the student choose the instructor for this course?_ Yes

_Do enrollment in this course require instructor approval?_ Yes

_Course Grading Convention:_ P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

_Graduate Division course:_ Yes

_Do this a web-based online course?_ No

_Do this an Interprofessional Education (IPE) course?_ No

_May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?_ No

_Repeat course for credit?_ Yes