

## COMPUTATIONAL AND SYSTEMS BIOLOGY (CSB)

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### CSB.100[J] Topics in Computational and Systems Biology

Same subject as 7.89[J]

Prereq: Permission of instructor

G (Fall)

2-0-10 units

Seminar based on research literature. Papers covered are selected to illustrate important problems and varied approaches in the field of computational and systems biology, and to provide students a framework from which to evaluate new developments. Preference to first-year CSB PhD students.

*C. Burge*

### CSB.110 Research Rotations in Computational and Systems Biology

Prereq: Permission of instructor

G (Fall, Spring)

0-12-0 units

Can be repeated for credit.

Students carry out research rotations with MIT faculty members or principal investigators working in the field of computational and systems biology. Generally three one-month long rotations are pursued that together span theoretical and experimental approaches. Open only to CSB PhD students.

*Staff*

### CSB.190 Research Problems in Computational and Systems Biology

Prereq: Permission of instructor

G (Fall, Spring, Summer)

Units arranged [P/D/F]

Can be repeated for credit.

Directed research in the field of computational and systems biology. Open only to CSB PhD students.

*Staff*

### CSB.195 Professional Development in Computational and Systems Biology

Prereq: None

G (IAP, Spring, Summer)

Units arranged [P/D/F]

Can be repeated for credit.

Required for CSB students in the doctoral program to fulfill their professional development requirement through self-directed professional activities. Professional development activities include: internships (with industry, government, or academia); attendance at scientific meetings, MIT IAP events, or career fairs; participation in networking events or an entrepreneurship competition; training in teaching through the MIT Teaching and Learning lab; or the CAPD Path of Professorship. For an internship experience, prior authorization is required prior to enrollment; a report is required within two weeks of completion. Proposals subject to departmental approval.

*E. Fraenkel, C. Burge*

### CSB.199 Teaching Experience in Computational Systems Biology

Prereq: Permission of instructor

G (Fall, IAP, Spring)

Units arranged [P/D/F]

Can be repeated for credit.

For qualified graduate students in the CSB graduate program interested in teaching. Classroom or laboratory teaching under the supervision of a faculty member.

*Staff*

### CSB.930[J] Research Experience in Biopharma (New)

Same subject as 7.930[J], 20.930[J]

Prereq: None

G (Fall)

2-10-0 units

See description under subject 20.930[J].

*C. Burge*

### CSB.THG Graduate Thesis

Prereq: Permission of instructor

G (Fall, IAP, Spring, Summer)

Units arranged

Can be repeated for credit.

Program of research leading to the writing of PhD thesis; to be arranged by the student and the MIT faculty advisor.

*Information: Faculty Advisor*