

BLSC, Bioinformatics and Genomics Track

Catalog year 2013-2014

Name:

SID:

Notes:

Last updated by/on:

1. Computer Science and Mathematics (16 units) **Note:** These courses will satisfy the related areas requirement.

- | | |
|----------------------|------------|
| <input type="text"/> | CS 10(4) |
| <input type="text"/> | CS 12(4) |
| <input type="text"/> | CS 14(4) |
| <input type="text"/> | MATH 9C(4) |

2. Ethics and Science: At least one course from the following. **Note:** This course may also satisfy a portion of the college breadth requirements in the Humanities.

- | | |
|----------------------|-------------|
| <input type="text"/> | PHIL 117(4) |
| <input type="text"/> | PHIL 118(4) |
| <input type="text"/> | PHIL 161(4) |
| <input type="text"/> | RLST 170(4) |

3. Upper-division requirements (a minimum of 45 units)

a) Required courses (38 units)

- | | | | |
|----------------------|---------------------------------------|----------------------|-------------|
| <input type="text"/> | BCH 110A(4) [recommended] <i>or</i> → | <input type="text"/> | BCH 100(4) |
| <input type="text"/> | BIOL 102(4) | | |
| <input type="text"/> | BIOL 105(4) | | |
| <input type="text"/> | BIOL 107A(4) <i>or</i> → | <input type="text"/> | BCH 110C(4) |
| <input type="text"/> | BIOL 119(4) | | |
| <input type="text"/> | STAT 100A(5) | | |
| <input type="text"/> | STAT 100B(5) | | |
| <input type="text"/> | STAT 160A(4) | | |
| <input type="text"/> | STAT 160B(4) | | |

b) Breadth electives: At least one course from each area (a minimum of 7 units).

(1) Bioinformatics and Computational Biology (CS 141 and MATH 112 recommended)

- | | | | | | |
|----------------------|-----------|----------------------|--------------|----------------------|--------------|
| <input type="text"/> | CS 141(4) | <input type="text"/> | MATH 120(4) | <input type="text"/> | STAT 160C(4) |
| <input type="text"/> | CS 166(4) | <input type="text"/> | MATH 135A(4) | <input type="text"/> | STAT 161(4) |
| <input type="text"/> | CS 170(4) | | | <input type="text"/> | STAT 170A(4) |
| <input type="text"/> | CS 171(4) | | | <input type="text"/> | STAT 170B(4) |

(2) Genomics, Macromolecules, and Molecular Biology

- | | | | | | |
|----------------------|--------------|----------------------|------------------------|----------------------|--------------------|
| <input type="text"/> | BIOL 107B(3) | <input type="text"/> | BCH 162(5) <i>or</i> ↓ | <input type="text"/> | BPSC / BIOL 148(4) |
| <input type="text"/> | BIOL 108(4) | <input type="text"/> | BPSC/ BCH/ BIOL 153(4) | <input type="text"/> | CBNS/ ENTX 150(4) |

Note: Independent study or research in the field of bioinformatics or genomics is recommended.

Summary of units:

- | | |
|---------------|----------------------|
| 1. | <input type="text"/> |
| 3. a) | <input type="text"/> |
| b) | <input type="text"/> |
| Total: | <input type="text"/> |