BIOINFORMATICS - MINOR

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

About This Program

The Bioinformatics minor provides a foundation in computer science and computational data processing for students in any field of biological sciences, allowing students to work with substantial computing and data science-oriented cyber systems. The minor enables students to competitively manage the computing and cyber aspects of their professions.

Students in the Bioinformatics minor will use Python programming language to import, clean, analyze, visualize and learn data from their real-world applications.

Contact Information

- Program Coordinators: Feodor F. Dragan and Augustine Samba | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

Program Delivery

- Delivery:
  - In person
- Location:
  - Kent Campus
  - Stark Campus

Admission Requirements

Admission to a minor is open to students declared in a bachelor’s degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

Minor Requirements

| Code | Title | Credit
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 11010</td>
<td>ALGEBRA FOR CALCULUS (KMCR)</td>
<td>Hours</td>
</tr>
</tbody>
</table>

Minor Prerequisites

- BSCI 40218 | INTRODUCTION TO GENOMICS ¹ |
- or BSCI 40224 | QUANTITATIVE METHODS IN BIOLOGY |

Minor Requirements

- BSCI 40220 | BIOINFORMATICS |
- or BTEC 40220 | BIOINFORMATICS |
- CS 10051 | COMPUTER SCIENCE PRINCIPLES (KMCR) |
- CS 10062 | PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES |
- CS 20062 | ADVANCED PROGRAMMING WITH PYTHON |

Minimum Total Credit Hours: 21

¹ Students may seek an approved substitute to BSCI 40218 or BSCI 40224 in the same department.

Graduation Requirements

<table>
<thead>
<tr>
<th>Minimum Minor GPA</th>
<th>Minimum Overall GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.000</td>
<td>2.000</td>
</tr>
</tbody>
</table>

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).