

## Curriculum overview

Proposed Bioinformatics Minor:

General Biology 1 & 2 with lab (Bio 103, 104)	8 credits
Genetics with lab (Bio 208)	4 credits
2 Computer Science (CSC 151, 152, 158, 159)	6 credits
Introduction to Bioinformatics with lab (Che 255)	4 credits
1 upper level bioinformatics elective (Bio 305, Che 303, CSC 353, 354)	3-4 credits
<b>TOTAL</b>	<b>25 credit minor</b>

No new resources are required. Dr. Gallagher's teaching and research efforts have been using bioinformatics skills for the past ten years. Dr. Gallagher's current funding from the NSF which totals \$579,846 (2 NSF grants over 4 years total) will build bioinformatics teaching and research opportunities at Lincoln University, and has already contributed to purchase of equipment for these purposes.

Teaching responsibilities should not change for Dr. Gallagher, nor for anyone else due to the fact that these courses are already offered by the University as part as other established programs in biology, chemistry, biochemistry, and computer science.

Courses for Proposed Bioinformatics Minor	Semester Currently Offered *	Current Instructor
General Biology 1 with lab (Bio 103)	fall and spring every year	Safford
General Biology 2 with lab (Bio 104)	fall and spring every year	McCarthy
Genetics with lab (Bio 208)	fall and spring every year	Hull
2 Computer Science (CSC 151, 152, 158, 159)	fall and spring every year	Monticchio, Smith, Jacks, Dedefa, Barimani
Introduction to Bioinformatics with lab (Che 255)	Spring Only	Gallagher

\*The semester(s) that each course is currently offered is listed in the table. Some of these courses already offer multiple sections each semester, so over the next 5 years it is projected that all of these courses will be offered at least as frequently as indicated in the table.