

# CURRICULUM GUIDE

## Computer Science, B.S. (*Bioinformatics Option*)

### 2008-2009

	Fall Semester		Spring Semester	
Freshman Year	CSC 185	3	CSC 191	3
	CSC 190	3	CSC 195	3
	BIO 121	4	BIO 315	4
	CHE 111/115	4	CHE 112/116	4
	ASO 100	1		
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>
Sophomore Year	CSC 310	3	CSC Elective	3
	STA 270	3	STA 320	3
	BIO 331	3	BIO 348	4
	Gen. Ed. (IA)	3	CHE 330	4
	Electives*	3-5	Gen. Ed. (VI)	3
	<b>Total</b>	<b>15-17</b>	<b>Total</b>	<b>17</b>
Junior Year	CSC Elective	3	CSC 340	3
	BIO 511	3	MAT 124	4
	CHE 361	3	BIO 349	3
	Gen Ed. (VA)	3	CHE 362	3
	Gen. Ed. (VII)	3	Gen. Ed. (VB)	3
	Gen. Ed. (IB)	3		
	<b>Total</b>		<b>Total</b>	<b>16</b>
Senior Year	CSC 545	3	CSC 520	3
	BIO 533	3	BIO 598	3
	Gen. Ed. (VC)	3	Gen. Ed. (VII)	3
	Gen. Ed. (IIIA)	3	Gen. Ed. (IIIB)	3
	Gen. Ed. (IC)	3	Electives	4-6
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>16-18</b>

\*Pre-Calculus if needed

For further information write:

Department of Computer Science  
 Eastern Kentucky University - Wallace Building - Room 417  
 521 Lancaster Avenue  
 Richmond, KY 40475-3102

Course Number and Name	
CSC 185	Introduction to Computer Concepts
CSC 190	Object-Oriented Programming I
CSC 191	Object-Oriented Programming II
CSC 195	Introduction to Discrete Structures
CSC 310	Data Structures
CSC 340	Ethics and Software Engineering
CSC 303 or	3D Modeling and Simulation
CSC 520	Multimedia System Design
CSC 313 or	Introduction to Database Systems
CSC 545	Theory of Database Systems
	Two CSC Elective Courses
MAT 124	Calculus I
STA 270	Applied Statistics I
STA 320	Applied Statistics II
BIO 121	Principles of Biology
BIO 315	Genetics
BIO 331	Cell Biology
BIO 348	Animal Physiology
BIO 511	Experimental Approaches in Molecular Biology
BIO 533	Bioinformatics: Principles and Applications
BIO 598	Special Problems
BIO 349	Applied Learning in Biology
CHE 111/115	General Chemistry I and Lab
CHE 112/116	General Chemistry II and Lab
CHE 330	Introductory Biochemistry
CHE 361	Organic Chemistry I
CHE 362	Organic Chemistry II
ASO 100	Academic Orientation

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Email contact: Ka-Wing.Wong@eku.edu