



**KENTUCKY STATE  
UNIVERSITY**

# COMPUTER SCIENCE BACHELOR OF SCIENCE - MATHEMATICS TRACK

Course	Title	Hours
<b>Year 1</b>		
<b>Term 1 (Fall)</b>		
KSU 118	Intro. to University Learning	3
ENG 101	English Comp I	3
MAT 115	College Algebra	3
COS 107	Prob Solving, Logic & Design	3
Natural Science Elective		3
CHE 101	General Chemistry I (must be taken with CHE 110)	
or BIO 101	or Life Science	
or BIO 111	or Principles of Biology	
or CHE 109	or Chemistry in Context	
or CHE 209	or Survey Gen/Organic/Biochemi	
or PHS 201	or Physical Sciences I	
<b>Hours</b>		<b>15</b>
<b>Term 2 (Spring)</b>		
ENG 102	English Comp II	3
MAT 120	Precalculus	4
COS 108	Prin Computer Science I	4
Arts		3
ART 130	Introduction to Art	
or MUS 130	or Introduction to Music	
or THE 130	or Introduction to Theatre	
or ENG 211	or Intro to Literature	
Guided Elective		3
<b>Hours</b>		<b>17</b>
<b>Year 2</b>		
<b>Term 3 (Fall)</b>		
ENG 216	Technical Writing	3
MAT 131	Calculus/Analy Geom I	5
COM 103	Interpersonal Communication	3
COS 109	Prin Computer Sci II	4
<b>Hours</b>		<b>15</b>
<b>Term 4 (Spring)</b>		
MAT 132	Calculus/Analy Geom II	5
COS 200	Computer Information Systems	3
COS 281	Introduction to Info. Sec. & A	3
COS 300/400 Elective		3
<b>Hours</b>		<b>14</b>
<b>Year 3</b>		
<b>Term 5 (Fall)</b>		
COS 300	System Design/Development	3
or DGE 300 Software Eng	Computing Games	
COS 301	Computer Organization	4
COS 310	Discrete Computing Structures	3
Natural Science Elective		3

BIO 101	Life Science	
or BIO 111	or Principles of Biology	
or CHE 109	or Chemistry in Context	
or CHE 101	or General Chemistry I	
or PHY 211	or General Physics I	
or PHY 212	or General Physics II	
Social or Behavioral Science Elective		3
SOC 203	Principles of Sociology	
or FIN 101	or Financial Literacy	
or PSY 200	or General Psychology	
or ECO 201	or Prin of Economics I	
<b>Hours</b>		<b>16</b>
<b>Term 6 (Spring)</b>		
COS 302	Operating Systems	3
COS 340	Data Struc Algorithm Analy	3
Natural Science Elective		3
BIO 111	Principles of Biology	
or PHY 212	or General Physics II	
or BIO 101	or Life Science	
or CHE 209	or Survey Gen/Organic/Biochemi	
or CHE 109	or Chemistry in Context	
Social or Behavioral Science Elective		3
FIN 101	Financial Literacy	
or ECO 201	or Prin of Economics I	
or PSY 200	or General Psychology	
or SOC 203	or Principles of Sociology	
Free Elective		3
<b>Hours</b>		<b>15</b>
<b>Year 4</b>		
<b>Term 7 (Fall)</b>		
MAT 321	Probability/Statistics I	3
COS 303	Human Perspective on Computing	3
COS 470	Networking/Telecommun	3
COS 490	Seminar in Computer Science	3
or COS 495 Interactive Gaming Project		
Humanities Elective		3
BUA 120	Business and Society	
or EDU 204	or Cultural Responsiveness	
or HIS 103	or Western Civilization	
or HIS 108	or Intro to African American Hist	
<b>Hours</b>		<b>15</b>
<b>Term 8 (Spring)</b>		
COS 410	Database Management Systems	3
COS/MAT 300/400 Elective		3
COS/MAT 300/400 Elective		3
Global/Civic		3
AFE 117	Global Perspect Ag/Food/Env	
or ASP 303	or American Civil Rights Movement	
or POS 361	or World Politics	
or POS 101	or American Government	
Free Elective		1
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>