

# Curriculum Report: Computer Science

## Overview

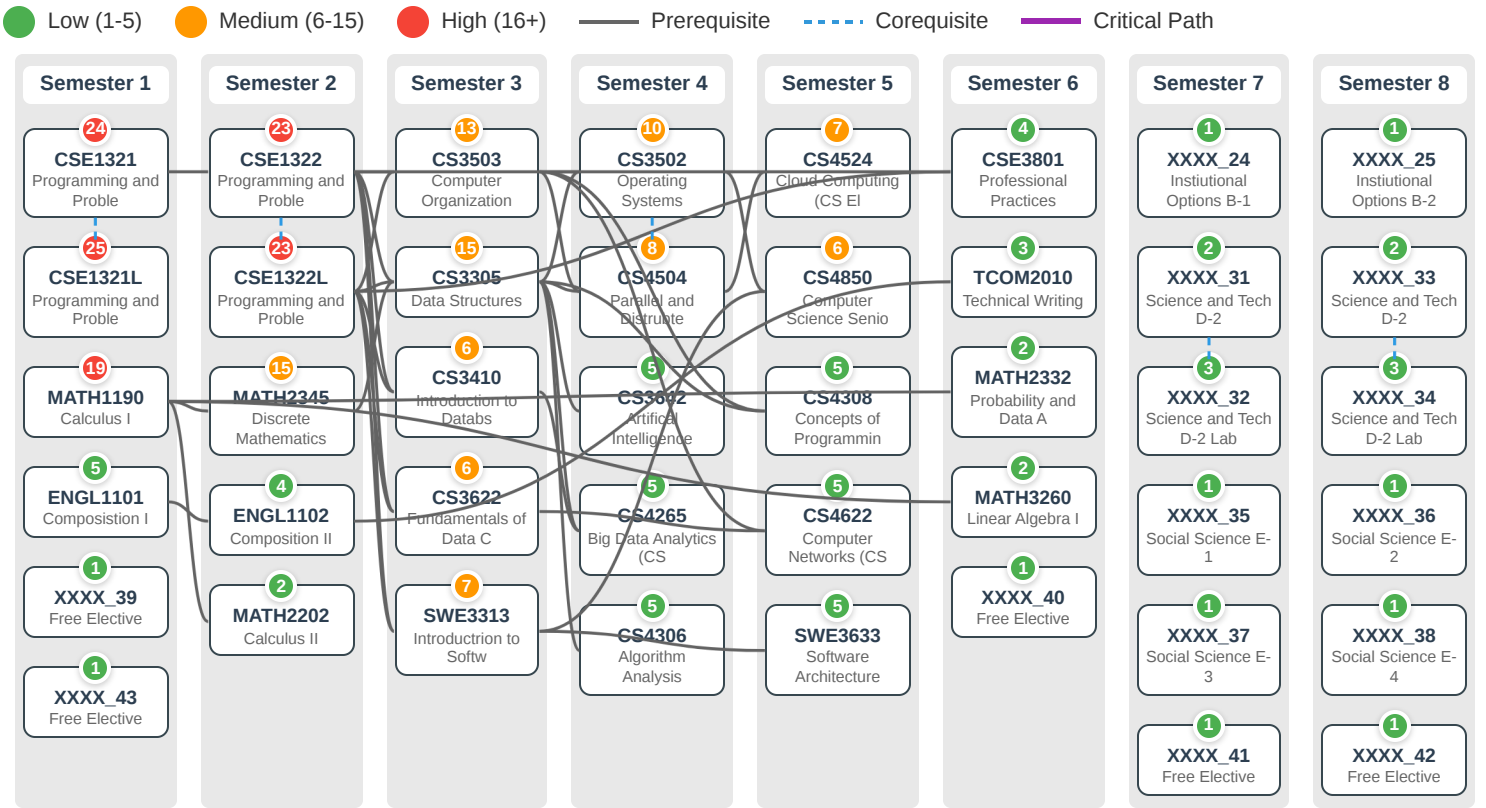
INSTITUTION <b>Kennesaw State University</b>	DEGREE <b>BS Computer Science</b>	SYSTEM <b>semester</b>	YEARS <b>4</b>
CIP CODE <b>11.07</b>	TOTAL CREDITS <b>120.0</b>	TOTAL COURSES <b>43</b>	

## Complexity Metrics

TOTAL COMPLEXITY <b>280</b>	LONGEST DELAY <b>7</b> CSE1321	HIGHEST CENTRALITY <b>167</b> CSE1322
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**Critical Path:** (CSE1321+CSE1321L) → (CSE1322+CSE1322L) → CS3503 → (CS4504+CS3502) → CS4524

## Curriculum Graph



# Term Schedule

Term	Courses	Credits
1	<div>CSE1321</div> Programming and Problem Solving I <div>CSE1321L</div> Programming and Problem Solving I Lab <div>MATH1190</div> Calculus I <div>ENGL1101</div> Composition I <div>XXXX_39</div> Free Elective <div>XXXX_43</div> Free Elective	16.0
2	<div>CSE1322</div> Programming and Problem Solving II <div>CSE1322L</div> Programming and Problem Solving II Lab <div>MATH2345</div> Discrete Mathematics <div>ENGL1102</div> Composition II <div>MATH2202</div> Calculus II	14.0
3	<div>CS3503</div> Computer Organization and Architecture <div>CS3305</div> Data Structures <div>CS3410</div> Introduction to Database Systems <div>CS3622</div> Fundamentals of Data Communication <div>SWE3313</div> Introduction to Software Engineering	15.0
4	<div>CS3502</div> Operating Systems <div>CS4504</div> Parallel and Distributed Computing <div>CS3642</div> Artificial Intelligence (CS Elective) <div>CS4265</div> Big Data Analytics (CS Elective) <div>CS4306</div> Algorithm Analysis	15.0
5	<div>CS4524</div> Cloud Computing (CS Elective) <div>CS4850</div> Computer Science Senior Project <div>CS4308</div> Concepts of Programming Languages <div>CS4622</div> Computer Networks (CS Elective) <div>SWE3633</div> Software Architecture and Design (CS Elective)	15.0
6	<div>CSE3801</div> Professional Practices and Ethics <div>TCOM2010</div> Technical Writing <div>MATH2332</div> Probability and Data Analysis <div>MATH3260</div> Linear Algebra I <div>XXXX_40</div> Free Elective	14.0
7	<div>XXXX_24</div> Institutional Options B-1 <div>XXXX_31</div> Science and Tech D-2 <div>XXXX_32</div> Science and Tech D-2 Lab <div>XXXX_35</div> Social Science E-1 <div>XXXX_37</div> Social Science E-3 <div>XXXX_41</div> Free Elective	15.0
8	<div>XXXX_25</div> Institutional Options B-2 <div>XXXX_33</div> Science and Tech D-2 <div>XXXX_34</div> Science and Tech D-2 Lab <div>XXXX_36</div> Social Science E-2	16.0

Term	Courses	Credits
	XXXX_38 Social Science E-4	
	XXXX_42 Free Elective	

## Course Metrics

Course	Name	Cr	Cplx	Blk	Dly	Ctr
CSE1321L	Programming and Problem Solving I Lab	1.0	25	18	7	0
CSE1321	Programming and Problem Solving I	3.0	24	17	7	92
CSE1322	Programming and Problem Solving II	3.0	23	16	7	167
CSE1322L	Programming and Problem Solving II Lab	1.0	23	17	6	0
MATH1190	Calculus I	4.0	19	13	6	0
MATH2345	Discrete Mathematics	3.0	15	9	6	32
CS3305	Data Structures	3.0	15	8	7	128
CS3503	Computer Organization and Architecture	3.0	13	6	7	72
CS3502	Operating Systems	3.0	10	3	7	77
CS4504	Parallel and Distrubted Computing	3.0	8	1	7	77
SWE3313	Introductrion to Software Engineering	3.0	7	2	5	24
CS4524	Cloud Computing (CS Elective)	3.0	7	0	7	0
CS3410	Introduction to Databse Systems	3.0	6	1	5	12
CS3622	Fundamentals of Data Communication	3.0	6	1	5	12
CS4850	Computer Science Senior Project	3.0	6	0	6	0
ENGL1101	Composistion I	3.0	5	2	3	0
CS4306	Algorithm Analysis	3.0	5	0	5	0
CS4308	Concepts of Programming Languages	3.0	5	0	5	0
CS4265	Big Data Analytics (CS Elective)	3.0	5	0	5	0
CS4622	Computer Networks (CS Elective)	3.0	5	0	5	0
CS3642	Artifical Intelligence (CS Elective)	3.0	5	0	5	0
SWE3633	Software Architecture and Design (CS Elective)	3.0	5	0	5	0
ENGL1102	Composition II	3.0	4	1	3	3
CSE3801	Professional Practices and Ethics	2.0	4	0	4	0
TCOM2010	Technical Writing	3.0	3	0	3	0
XXXX_32	Science and Tech D-2 Lab	1.0	3	1	2	0
XXXX_34	Science and Tech D-2 Lab	1.0	3	1	2	0
MATH2202	Calculus II	4.0	2	0	2	0
MATH2332	Probability and Data Analysis	3.0	2	0	2	0
MATH3260	Linear Algebra I	3.0	2	0	2	0
XXXX_31	Science and Tech D-2	3.0	2	0	2	0
XXXX_33	Science and Tech D-2	3.0	2	0	2	0
XXXX_24	Instiutional Options B-1	2.0	1	0	1	0

Course	Name	Cr	Cplx	Blk	Dly	Ctr
XXXX_25	Institutional Options B-2	3.0	1	0	1	0
XXXX_35	Social Science E-1	3.0	1	0	1	0
XXXX_36	Social Science E-2	3.0	1	0	1	0
XXXX_37	Social Science E-3	3.0	1	0	1	0
XXXX_38	Social Science E-4	3.0	1	0	1	0
XXXX_39	Free Elective	3.0	1	0	1	0
XXXX_40	Free Elective	3.0	1	0	1	0
XXXX_41	Free Elective	3.0	1	0	1	0
XXXX_42	Free Elective	3.0	1	0	1	0
XXXX_43	Free Elective	2.0	1	0	1	0

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