

# Curriculum Report: Computer Science

## Overview

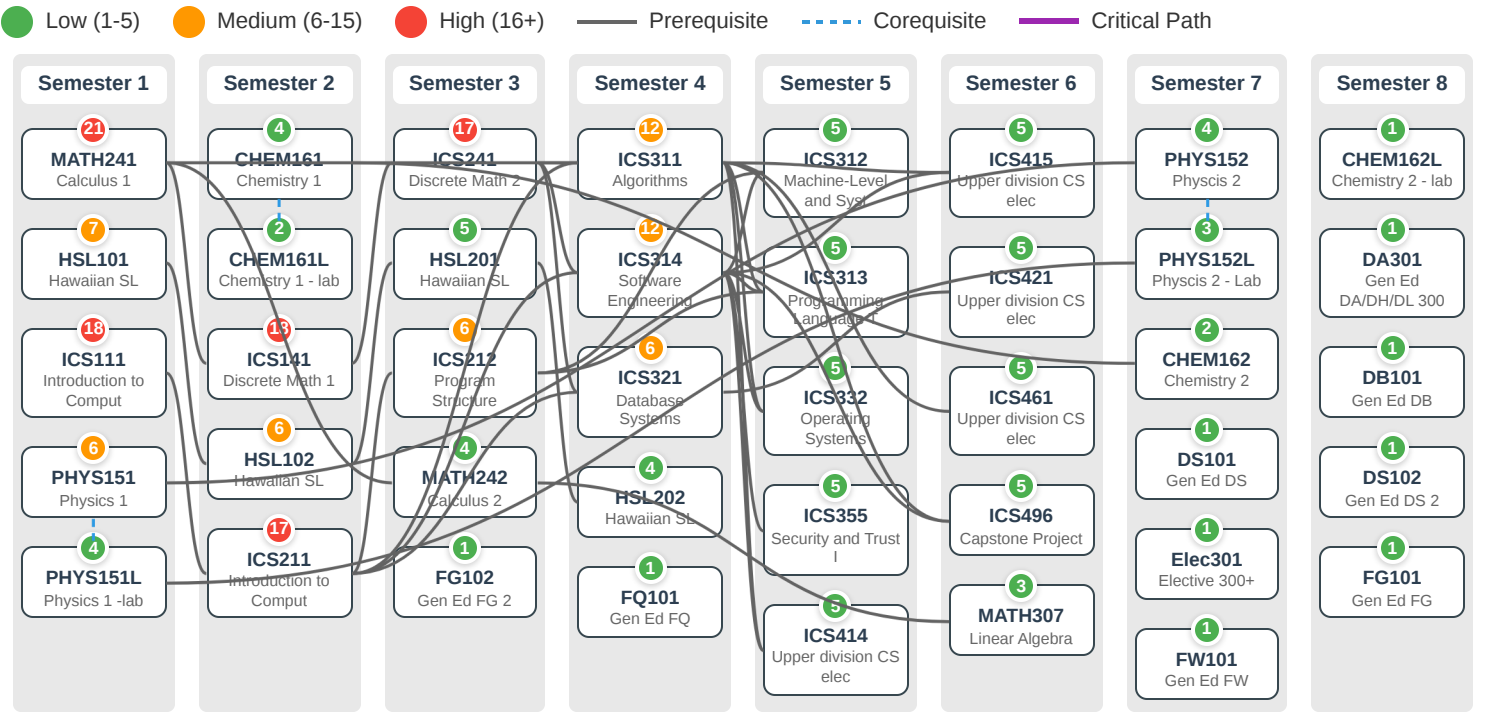
INSTITUTION <b>University of Hawaii - Manoa</b>	DEGREE <b>BS Computer Science</b>	SYSTEM <b>semester</b>	YEARS <b>4</b>
CIP CODE <b>11.0701</b>	TOTAL CREDITS <b>120.0</b>	TOTAL COURSES <b>41</b>	

## Complexity Metrics

TOTAL COMPLEXITY <b>236</b>	LONGEST DELAY <b>5</b> ICS141	HIGHEST CENTRALITY <b>84</b> ICS311
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**Critical Path:** MATH241 → ICS141 → ICS241 → ICS314 → ICS332

## Curriculum Graph



## Term Schedule

Term	Courses	Credits
1	MATH241 Calculus 1 HSL101 Hawaiian SL ICS111 Introduction to Computer Science I PHYS151 Physics 1 PHYS151L Physics 1 -lab	15.0
2	CHEM161 Chemistry 1 CHEM161L Chemistry 1 - lab ICS141 Discrete Math 1 HSL102 Hawaiian SL ICS211 Introduction to Computer Science 2	14.0
3	ICS241 Discrete Math 2 HSL201 Hawaiian SL ICS212 Program Structure MATH242 Calculus 2 FG102 Gen Ed FG 2	16.0
4	ICS311 Algorithms ICS314 Software Engineering ICS321 Database Systems HSL202 Hawaiian SL FQ101 Gen Ed FQ	16.0
5	ICS312 Machine-Level and System Programming ICS313 Programming Language Theory ICS332 Operating Systems ICS355 Security and Trust I ICS414 Upper division CS elective	15.0
6	ICS415 Upper division CS elective ICS421 Upper division CS elective ICS461 Upper division CS elective ICS496 Capstone Project MATH307 Linear Algebra	15.0
7	PHYS152 Phycis 2 PHYS152L Phycis 2 - Lab CHEM162 Chemistry 2 DS101 Gen Ed DS Elec301 Elective 300+ FW101 Gen Ed FW	16.0
8	CHEM162L Chemistry 2 - lab DA301 Gen Ed DA/DH/DL 300 DB101 Gen Ed DB DS102 Gen Ed DS 2 FG101 Gen Ed FG	13.0

Course Metrics

Course	Name	Cr	Cplx	Blk	Dly	Ctr
MATH241	Calculus 1	4.0	21	16	5	0
ICS111	Introduction to Computer Science I	4.0	18	14	4	0
ICS141	Discrete Math 1	3.0	18	13	5	75
ICS211	Introduction to Computer Science 2	4.0	17	13	4	68
ICS241	Discrete Math 2	3.0	17	12	5	75
ICS311	Algorithms	4.0	12	7	5	84
ICS314	Software Engineering	3.0	12	7	5	63
HSL101	Hawaiian SL	3.0	7	3	4	0
ICS212	Program Structure	3.0	6	2	4	8
ICS321	Database Systems	3.0	6	1	5	9
PHYS151	Physics 1	3.0	6	3	3	0
HSL102	Hawaiian SL	3.0	6	2	4	4
ICS332	Operating Systems	3.0	5	0	5	0
ICS355	Security and Trust I	3.0	5	0	5	0
ICS496	Capstone Project	3.0	5	0	5	0
ICS312	Machine-Level and System Programming	3.0	5	0	5	0
ICS313	Programming Language Theory	3.0	5	0	5	0
ICS414	Upper division CS elective	3.0	5	0	5	0
ICS415	Upper division CS elective	3.0	5	0	5	0
ICS421	Upper division CS elective	3.0	5	0	5	0
ICS461	Upper division CS elective	3.0	5	0	5	0
HSL201	Hawaiian SL	3.0	5	1	4	4
MATH242	Calculus 2	4.0	4	1	3	3
PHYS151L	Physics 1 -lab	1.0	4	1	3	3
PHYS152	Phycis 2	3.0	4	1	3	3
HSL202	Hawaiian SL	3.0	4	0	4	0
CHEM161	Chemistry 1	3.0	4	2	2	0
MATH307	Linear Algebra	3.0	3	0	3	0
PHYS152L	Phycis 2 - Lab	1.0	3	0	3	0
CHEM161L	Chemistry 1 - lab	1.0	2	0	2	0
CHEM162	Chemistry 2	3.0	2	0	2	0
CHEM162L	Chemistry 2 - lab	1.0	1	0	1	0
FG101	Gen Ed FG	3.0	1	0	1	0

Course	Name	Cr	Cplx	Blk	Dly	Ctr
FW101	Gen Ed FW	3.0	1	0	1	0
FG102	Gen Ed FG 2	3.0	1	0	1	0
DS101	Gen Ed DS	3.0	1	0	1	0
DS102	Gen Ed DS 2	3.0	1	0	1	0
DB101	Gen Ed DB	3.0	1	0	1	0
DA301	Gen Ed DA/DH/DL 300	3.0	1	0	1	0
Elec301	Elective 300+	3.0	1	0	1	0
FQ101	Gen Ed FQ	3.0	1	0	1	0

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