



**WRIGHT STATE
UNIVERSITY**

B.S. in Computer Science

Program Guide

Student's Name _____ UID# _____

First Year	Qtr	Grade	(49 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su
CEG 233	4.0	_____	Linux and Windows	(CS 240, Note 1, 2, 3)	a	a	X	•
CS 240	4.0	_____	Computer Programming I	(MPL 3)	X	a	a	a
CS 241	4.0	_____	Computer Programming II	(CS 240)	a	X	a	a
CS 242	4.0	_____	Computer Programming III	(CS 241, MTH 257)	a	a	X	•
ENG 101	4.0	_____	Composition I		X	a	a	a
ENG 102	4.0	_____	Composition II	(ENG 101)	a	X	a	a
MTH 229	5.0	_____	Calculus I	(MTH 131 or MPL 7)	a	X	a	a
MTH 230	5.0	_____	Calculus II	(MTH 229)	a	a	X	a
MTH 257	3.0	_____	Discrete Mathematics	(Note 4, MTH 130 or MPL 5)	X	a	a	•
GEN ED	4.0	_____	General Education	(See WSU General Education requirements)	X	a	•	•
GEN ED	4.0	_____	General Education	(See WSU General Education requirements)	a	X	a	a
GEN ED	4.0	_____	General Education	(See WSU General Education requirements)	a	a	X	a
Credit Hours Per Quarter in the Model Program					15	17	17	0

Second Year	Qtr	Grade	(51 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su
CEG 320	4.0	_____	Computer Organization.....	(CS 242 or CEG 221)	a	a	X	•
CS 400	4.0	_____	Data Structures and Algorithms.....	(CS 242, CEG 233)	X	a	a	•
MTH 231	5.0	_____	Calculus III	(MTH 230)	X	a	a	a
MTH 253	3.0	_____	Matrix Algebra	(MTH 230)	a	X	a	•
GEN ED*	5.0	_____	Laboratory Science Sequence 1 st Class	(MTH 229)	X	•	a	•
GEN ED*	5.0	_____	Laboratory Science Sequence 2 nd Class	(MTH 230)	a	X	a	•
GEN ED*	5.0	_____	Laboratory Science Sequence 3 rd Class.....		•	a	X	•
Elective	4.0	_____	CS/CEG Technical Elective.....	(Note 4)	a	X	a	•
Elective	4.0	_____	CS/CEG Technical Elective.....		a	a	X	•
GEN ED	4.0	_____	General Education.....	(See WSU General Education requirements)	X	a	a	a
GEN ED	4.0	_____	General Education.....	(See WSU General Education requirements)	a	X	a	a
GEN ED	4.0	_____	General Education.....	(See WSU General Education requirements)	a	a	X	a
Credit Hours Per Quarter in the Model Program					18	16	17	0

* Select from one the following Laboratory Science Sequences: **Biology** (111, 112, 115) or **Chemistry** (CHM 121,122,123) or **Physics** (PHY 240/200, 242/202, 244/204) or **Earth and Environmental Science** (EES 251/252, 253/254, 255/256)

Third Year	Qtr	Grade	(48 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su
CEG 433	4.0	_____	Operating Systems.....	(CS 400, CEG 320)	X	a	a	•
CEG 460	4.0	_____	Introduction to Software Engineering	(CS 400)	a	X	a	a
CS 405	4.0	_____	Introduction to Data Base Management Systems	(CS 400)	a	a	X	•
EGR 335	3.0	_____	Technical Communications	(ENG 102)	X	a	a	a
STT 3XX	3.0	_____	Statistics (Select from STT 360, STT 363, or ISE 301).....	(varies by course)	X	a	a	a
Elective	4.0	_____	CS/CEG Technical Elective.....	(Note 4)	a	X	a	•
Elective	4.0	_____	CS/CEG Technical Elective.....		a	a	X	•
Elective	3.0	_____	Math or Science	(Note 6, Note 8)	X	a	a	a
Elective	3.0	_____	Math or Science	(Note 6, Note 8)	a	a	X	a
Elective	4.0	_____	General Elective		X	a	a	a
Elective	4.0	_____	General Elective		a	X	a	a
Elective	4.0	_____	General Elective		a	a	X	a
GEN ED	4.0	_____	General Education.....	(See WSU General Education requirements)	a	X	a	a
Credit Hours Per Quarter in the Model Program					17	16	15	0

Fourth Year			Qtr	Grade	(43 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su	
CS	415	3.0	_____	_____	Social Implications of Computing.....(Note 7)		a	X	a	a	
CS	466	4.0	_____	_____	Introduction to Formal Languages (CS 400)		X	a	a	•	
CS	480	4.0	_____	_____	Comparative Languages..... (CS 400)		a	X	a	a	
Elective	4.0		_____	_____	CS/CEG Technical Elective.....(Note 4)		X	a	a	•	
Elective	4.0		_____	_____	CS/CEG Technical Elective.....		a	X	a	•	
Elective	4.0		_____	_____	CS/CEG Technical Elective.....		a	X	a	•	
Elective	4.0		_____	_____	CS/CEG Technical Elective.....		a	a	X	•	
Elective	4.0		_____	_____	CS/CEG Technical Elective.....		a	a	X	•	
Elective	4.0		_____	_____	General Elective.....		X	a	a	a	
Elective	4.0		_____	_____	General Elective.....		a	a	X	a	
GEN ED	4.0		_____	_____	General Education.....(See WSU General Education requirements)		X	a	a	a	
Credit Hours Per Quarter in the Model Program								16	15	12	0

TOTAL PROGRAM CREDIT HOURS

191.0

NOTES:

1. In the right hand columns, (X) denotes the typical schedule for a full-time student, (a) denotes "available", and (•) denotes "not available".
2. The course corresponding to the number in parentheses is a prerequisite. Such a number followed by "c", such as (PHY ###c), denotes a co-requisite (taken at the same time).
3. Some programming experience is required in order to take CEG 233.
4. Technical Elective – Some technical electives require additional prerequisites. All electives must be chosen from approved computer engineering general electives. Most 400 level technical electives have CS 400 as a pre-requisite. There are a total of 36 hours for technical electives and at least 16 hours must be at the 400 level.
5. MTH 257 (Discrete Mathematics) is the entry level Math course for the BS degree program. Prerequisites Math courses such as MTH 126, MTH 127, MTH 128, MTH 129, MTH 130, or MTH 131 may be eligible to count as electives. See Advisor.
6. Senior standing or permission is required to take CS 415.
7. Math courses must be at least at the 200 level and excludes the following courses: MTH 228, MTH 290, MTH 310, MTH 343, MTH 344, MTH 345, MTH 348 and MTH 446.
8. Science course must be a course that is appropriate for science or engineering majors.

General Education (Gen Ed) Checklist (Refer to the current catalog for additional description):

- Area 2: History – Select one (1) course: CLS 150, HST 101, HST 102, or HST 103.
The non-Western World (WI) – Select one (1) Course: CSE/CST, RSE/RST, HLT 202, SW 272, or URS 200
- Area 3: Select two (2) courses from *different* Categories:
Economics: EC 200 (some WI), EC 290 (WI)
Political Science: PLS 200
Psychology: PSY 105
Sociology (WI): SOC 200, SOC 205
- Area 4: Select one (1) course from either category:
Great Books (WI): CLS, ENG, PHY or REL 204
Fine and Performing Arts: ART, MUS or TH 214, MUS 290, MP 131
- Additional courses from Area 2, 3, and 4 - total of 8 more hours
Select one course from two of these three areas. Except for Area 2, the course selected must come from a different sub category than the courses(s) chosen to meet the area requirement. (See undergraduate catalog general education section for complete details)
- Area 6: Select one (1) course from approved College of Liberal Arts college component.

General Electives See General Elective Policy

Computer Science/Computer Engineering Technical Electives:

See approved Computer Science sheet for list of approved electives. Courses must be approved by a department advisor.