



**WRIGHT STATE  
UNIVERSITY**

# B.A. 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, MTH 130, MTH 131)	a	X	a	a
CS 242	4.0	_____	Computer Programming III .....	(CS 241 or CEG 221, 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 228	5.0	_____	Calculus for Social Sciences .....	(MTH 128 or MTH 129 or MPL 5)	a	X	a	a
MTH 257	3.0	_____	Discrete Mathematics .....	(MTH 128 or MTH 129 or MPL 5)	X	a	a	a
PHL 223	4.0	_____	Symbolic Logic .....		X	a	a	a
STT 160	5.0	_____	Statistical Concepts .....	(MTH 126)	a	a	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
<b>Credit Hours Per Quarter in the Model Program .....</b>					<b>15</b>	<b>17</b>	<b>17</b>	<b>0</b>

Second Year	Qtr	Grade	(48 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su
CS 302	4.0	_____	SQL/Oracle Databases .....	(CS 141 or CS 208 or CS 240)	•	X	•	•
CS 400	4.0	_____	Data Structures and Algorithms .....	(CS 242, CEG 233)	X	a	a	•
Elective	4.0	_____	CS/CEG Technical Elective .....		a	a	X	•
Elective	4.0	_____	General Elective .....		a	X	a	a
Elective	4.0	_____	General Elective .....		a	a	X	a
GEN ED*	4.0	_____	Natural Science 1 <sup>st</sup> class .....	(See WSU General Education requirements)	X	a	a	a
GEN ED*	4.0	_____	Natural Science 2 <sup>nd</sup> class .....	(See WSU General Education requirements)	a	X	a	a
GEN ED*	4.0	_____	Natural Science 3 <sup>rd</sup> class .....	(See WSU General Education requirements)	a	a	X	a
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)	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
<b>Credit Hours Per Quarter in the Model Program .....</b>					<b>16</b>	<b>16</b>	<b>16</b>	<b>0</b>

\* Select from the following three quarter Natural Science Sequences and the corresponding lab: **Biology** (BIO 105, 106, 107 or BIO 111, 112, 115) Or **Chemistry** (CHM 105, 106, 107 or CHM 121,122,123 or CHM 102, ANT 201, 202) or **Earth and Environmental Science** (EES 105, 106, 107 or EES 251, 253, 255) or **Physics** (PHY 105, 106, 107 or PHY 111, 112, 113 or PHY 240, 242, 244)

Third Year	Qtr	Grade	(47 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su
CEG 320	4.0	_____	Computer Organization .....	(CS 242 or CEG 221)	X	a	a	•
CEG 355	4.0	_____	Introduction to Info. Design of Technology Systems .....	(CS 241)	•	X	•	•
CS 466	4.0	_____	Formal Languages .....	(CS 400)	a	a	X	a
EGR 335	3.0	_____	Technical Communications .....		X	a	a	a
Elective	4.0	_____	CS/CEG Technical Elective .....		X	a	a	•
Elective	4.0	_____	CS/CEG Technical Elective .....		a	X	a	•
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	X	a	a
Elective	4.0	_____	General Elective .....		a	a	X	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
<b>Credit Hours Per Quarter in the Model Program .....</b>					<b>15</b>	<b>16</b>	<b>16</b>	<b>0</b>

Fourth Year	Qtr	Grade	(44 credit hours)	Pre/Co-requisites	Fa	Wi	Sp	Su
CEG 460	4.0	_____	_____	Introduction to Software Engineering..... (CS 400)	X	a	•	a
CS 415	4.0	_____	_____	Social Implications of Computing.....(Note 5)	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	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	X	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)	X	a	a	a
<b>Credit Hours Per Quarter in the Model Program .....</b>					<b>16</b>	<b>15</b>	<b>12</b>	<b>0</b>

**TOTAL PROGRAM CREDIT HOURS**

**187.0**

**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. Senior standing or permission is required to take CS 415.

**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, 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 must be approved by a department advisor.