

# 5-Year B.S./M.S. in Computer Science—Embedded Systems (EVEN Start Year)

2019-20 Sample Course Schedule - This is a recommended schedule and may be altered as needed. Consult your advisor when making changes.  
See degree audit for Christian Service requirements.

## FALL

### FIRST YEAR (FALL EVEN)

NOND 101	Southern Connections (IN-1)	1
CPTR 108	#EssenceofComputing	3
MATH 120	Precalculus Algebra	3
ENGL 101	Critical Think. in Ac Rdg & Wrtg I (IN-2)	3
COMM 135	Comm. & Public Speaking (IN-3)	3
	Aesthetic Analysis (IN-10)	<u>3</u>
		<b>16</b>

### SUMMER (SUMMER ODD)

RELB 125 or RELT 177 (R-1)	<u>3</u>
	<b>3</b>

### SECOND YEAR (FALL ODD)

CPHE 200	Digital Logic and Design	4
CPTR 215	Fundamental of Software Design	4
MATH 191	Calculus I	4
MATH 215	Statistics (IN-4)	<u>3</u>
		<b>15</b>

### SUMMER (SUMMER EVEN)

PSYC 128	Developmental Psych (L-8)	3
	Electives (Internship)	<u>2</u>
		<b>5</b>

### THIRD YEAR (FALL EVEN)

CPHE 380	Microcontroller Design ( <u>EVEN Fall</u> )	4
CPTR 318	Data Structures & Algorithms	3
CPTR 328	Principles of Networking	3
PHYS 211	Gen Physics I	3
PHYS 213	Gen Physics I LAB	<u>1</u>
		<b>14</b>

### SUMMER (SUMMER ODD)

Electives (Internship)	<u>3</u>
	<b>3</b>

### FOURTH YEAR (FALL ODD)

CPTR 435	Mobile Application Development ( <u>ODD Fall</u> )	3
CPTR 486	Senior Seminar (W)	2
CPTR 542	Advanced Network Security ( <u>ODD Fall</u> )	3
CPTR 511	Testing ( <u>ODD Fall</u> )	3
	U.D. Biblical Studies (R-3)	<u>3</u>
		<b>14</b>

### SUMMER (SUMMER EVEN)

CPHE 598/599	Project/Thesis	<u>1</u>
		<b>1</b>

### FIFTH YEAR (FALL EVEN)

CPTR 531	Algorithms ( <u>EVEN Fall</u> )	3
CPHE 546	Embedded Sys. Robotics ( <u>EVEN Fall</u> )	3
CPHE 598/599	Project/Thesis	3
	U.D. CPTR/CPHE Elective	<u>4</u>
		<b>13</b>

## WINTER

### (WINTER ODD)

CPTR 124	Fundamentals of Programming	4
MATH 121	Precalculus Trigonometry	2
ENGL 102	Critical Think. in Ac Rdg & Wrtg II (IN-2)	3
PEAC 125	Fitness for Collegiate Life (P-1)	1
	RELT 138, 225, or 255 (R-2)	3
	Econ. & Bus. Basics (IN-9)	<u>3</u>
		<b>16</b>

### (WINTER EVEN)

CPHE 222	Organ. Arch. & Assembly Lang.	4
MATH 280	Discrete Math Structures	3
MATH 192	Calculus II	4
	U.D. History (L-6) (W)	3
	Physical Activity (P-2)	<u>1</u>
		<b>15</b>

### (WINTER ODD)

CPTR 365	Operating Systems	3
CPTR 427	Network Security	3
CPHE 412	Embedded Systems Dev. ( <u>ODD Winter</u> )	3
MATH 200	Elementary Linear Algebra	2
PHYS 212	Gen Physics II	3
PHYS 214	Gen Physics II LAB	1
	Physical Activity (P-2)	<u>1</u>
		<b>16</b>

### (WINTER EVEN)

CPHE 323	Analog Electronics ( <u>EVEN Winter</u> )	3
CPTR 488	Senior Project	2
CPTR 551	Parallel & Distributed Systems ( <u>EVEN Winter</u> )	3
CPHE 564	Real-Time Embedded ( <u>EVEN Winter</u> )	3
PEAC 425	Fit for Hire (P-3)	1
	U.D. Religion Elective (R-4) (W)	<u>3</u>
		<b>15</b>

### (WINTER ODD)

CPHE 533	Adv. Comp. Arch. ( <u>ODD Winter</u> )	3
CPTR 571	System Soft. & Arch. ( <u>ODD Winter</u> )	3
CPTR 575	Issues in Comp. Sci. & Religion ( <u>ODD Winter</u> )	3
CPHE 598/599	Project/Thesis	<u>2</u>
		<b>11</b>

**TOTAL HOURS 157**

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PHYS 211	Gen Physics I	3
PHYS 213	Gen Physics I LAB	<u>1</u>
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### SUMMER (SUMMER EVEN)

Electives (Internship)	<u>3</u>
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### FOURTH YEAR (FALL EVEN)

CPTR 531	Algorithms ( <u>EVEN Fall</u> )	3
CPTR 486	Senior Seminar (W)	2
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	U.D. Biblical Studies (R-3)	<u>3</u>
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### SUMMER (SUMMER ODD)

CPHE 598/599	Project/Thesis	<u>1</u>
		<b>1</b>

### FIFTH YEAR (FALL ODD)

CPTR 435	Mobile Application Development ( <u>ODD Fall</u> )	3
CPTR 511	Testing ( <u>ODD Fall</u> )	3
CPTR 542	Advanced Network Security ( <u>ODD Fall</u> )	3
CPHE 598/599	Project/Thesis	3
	U.D. CPTR/CPHE Elective	<u>4</u>
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CPHE 380	Microcontroller Design ( <u>EVEN Fall</u> )	4
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## WINTER

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### (WINTER ODD)

CPHE 412	Embedded Systems Dev. ( <u>ODD Winter</u> )	3
CPTR 488	Senior Project	2
CPHE 533	Adv. Comp. Arch. ( <u>ODD Winter</u> )	3
CPTR 571	System Soft. & Arch. ( <u>ODD Winter</u> )	3
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