

## 5-Year B.S./M.S. in Computer Science (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			WINTER		
<b>FIRST YEAR (FALL EVEN)</b>			<b>(WINTER ODD)</b>		
NOND 101	Southern Connections (IN-1)	1	CPTR 124	Fundamentals of Programming	4
CPTR 108	#EssenceofComputing	3	MATH 121	Precalculus Trigonometry	2
MATH 120	Precalculus Algebra	3	ENGL 102	Criti.Think. in Ac Rdg & Wrtg II (IN-2)	3
ENGL 101	Critical Think. in Ac Rdg & Wrtg I (IN-2)	3	PEAC 125	Fitness for Collegiate Life (P-1)	1
COMM 135	Comm. & Public Speaking (IN-3)	3		RELT 138, 225, or 255 (R-2)	3
	Aesthetic Analysis (IN-10)	<u>3</u>		Econ. & Bus. Basics (IN-9)	<u>3</u>
		<b>16</b>			<b>16</b>
<b>SUMMER (SUMMER ODD)</b>					
	RELB 125 or RELT 177 (R-1)	<u>3</u>			
		<b>3</b>			
<b>SECOND YEAR (FALL ODD)</b>			<b>(WINTER EVEN)</b>		
CPHE 200	Digital Logic and Design	4	CPHE 222	Organ. Arch. & Assembly Lang.	4
CPTR 215	Fundamental of Software Design	4	CPTR 319	Database Management Systems	3
MATH 191	Calculus I	4	MATH 280	Discrete Math Structures	3
MATH 215	Statistics (IN-4)	3	MATH 192	Calculus II	4
	Physical Activity (P-2)	1		Electives	<u>2</u>
		<b>16</b>			<b>16</b>
<b>SUMMER (SUMMER EVEN)</b>					
PSYC 128	Developmental Psych (L-8)	3			
	U.D. CPTR/CPHE Electives (Internship)	<u>2</u>			
		<b>5</b>			
<b>THIRD YEAR (FALL EVEN)</b>			<b>(WINTER ODD)</b>		
CPTR 318	Data Structures & Algorithms	3	CPTR 302	Software Dev. Tools	1
CPTR 328	Principles of Networking	3	CPTR 365	Operating Systems	3
	Natural Science Sequence w/lab <sup>1</sup> (IN-7)	4	CPTR 427	Network Security	3
	U.D. History (L-6) (W)	3	MATH 200	Elementary Linear Algebra	2
	Physical Activity (P-2)	1		Natural Science Sequence w/lab <sup>1</sup>	4
		<b>14</b>		Electives	<u>3</u>
<b>SUMMER (SUMMER ODD)</b>					
	Electives (Internship)	<u>3</u>			
		<b>3</b>			
<b>FOURTH YEAR (FALL ODD)</b>			<b>(WINTER EVEN)</b>		
CPTR 486	Senior Seminar (W)	2	CPTR 405	Organization of Prog. Lang. <u>(EVEN Winter)</u>	3
CPTR 542	Advanced Network Security <u>(ODD Fall)</u>	3	CPTR 488	Senior Project	2
CPTR 511	Testing <u>(ODD Fall)</u>	3	CPTR 521	Advanced Databases <u>(EVEN Winter)</u>	3
	U.D. CPTR/CPHE Elective	4	CPTR 551	Parallel & Distributed Systems <u>(EVEN Winter)</u>	3
	U.D. Biblical Studies (R-3)	<u>3</u>	PEAC 425	Fit for Hire (P-3)	1
		<b>15</b>		Electives	<u>3</u>
<b>SUMMER (SUMMER EVEN)</b>					
CPHE 598/599	Project/Thesis	1			
		<b>1</b>			
<b>FIFTH YEAR (FALL EVEN)</b>			<b>(WINTER ODD)</b>		
CPTR 531	Algorithms <u>(EVEN Fall)</u>	3	CPHE 533	Adv. Comp. Arch. <u>(ODD Winter)</u>	3
CPHE 546	Embedded Sys. Robotics <u>(EVEN Fall)</u>	3	CPTR 571	System Soft. & Arch. <u>(ODD Winter)</u>	3
CPHE 598/599	Project/Thesis	3	CPTR 575	Iss. in Comp. Sci. & Religion <u>(ODD Winter)</u>	3
	U.D. Religion Elective (R-4) (W)	<u>3</u>	CPHE 598/599	Project/Thesis	<u>2</u>
		<b>12</b>			<b>11</b>
			<b>TOTAL HOURS</b>		
			<b>157</b>		

## 5-Year B.S./M.S. in Computer Science (ODD 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 ODD)

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	
PEAC 125	Fitness for Collegiate Life (P-1)	1	
	Natural Science Sequence w/lab <sup>1</sup> (IN-7)	4	
		<u>15</u>	

#### SUMMER (SUMMER EVEN)

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

#### SECOND YEAR (FALL EVEN)

CPHE 200	Digital Logic and Design	4	
CPTR 215	Fundamental of Software Design	4	
COMM 135	Comm. & Public Speaking (IN-3)	3	
MATH 191	Calculus I	4	
	Physical Activity (P-2)	1	
		<u>16</u>	

#### SUMMER (SUMMER ODD)

PSYC 128	Developmental Psych (L-8)	3	
	U.D. CPTR/CPHE Electives (Internship)	2	
		<u>5</u>	

#### THIRD YEAR (FALL ODD)

CPTR 318	Data Structures & Algorithms	3	
CPTR 328	Principles of Networking	3	
MATH 215	Statistics (IN-4)	3	
	U.D. History (L-6) (W)	3	
	RELT 138, 225, or 255 (R-2)	3	
		<u>15</u>	

#### SUMMER (SUMMER EVEN)

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

#### FOURTH YEAR (FALL EVEN)

CPTR 486	Senior Seminar (W)	2	
CPTR 531	Algorithms <u>(EVEN Fall)</u>	3	
CPHE 546	Embedded Sys. Robotics <u>(EVEN Fall)</u>	3	
	U.D. CPTR/CPHE Elective	4	
	U.D. Biblical Studies (R-3)	3	
		<u>15</u>	

#### SUMMER (SUMMER ODD)

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

#### FIFTH YEAR (FALL ODD)

CPTR 542	Advanced Network Security <u>(ODD Fall)</u>	3	
CPTR 511	Testing <u>(ODD Fall)</u>	3	
CPHE 598/599	Project/Thesis	3	
	U.D. Religion Elective (R-4) (W)	3	
		<u>12</u>	

### WINTER

#### (WINTER EVEN)

CPTR 124	Fundamentals of Programming	4	
MATH 121	Precalculus Trigonometry	2	
ENGL 102	Critical Think. in Ac Rdg & Wrtg II (IN-2)	3	
	Natural Science Sequence w/lab <sup>1</sup>	4	
	Econ. & Bus. Basics (IN-9)	3	
		<u>16</u>	

#### (WINTER ODD)

CPHE 222	Organ. Arch. & Assembly Lang.	4	
CPTR 319	Database Management Systems	3	
MATH 280	Discrete Math Structures	3	
MATH 192	Calculus II	4	
		<u>14</u>	

#### (WINTER EVEN)

CPTR 302	Software Dev. Tools	1	
CPTR 365	Operating Systems	3	
CPTR 405	Organization of Prog. Lang. <u>(EVEN Winter)</u>	3	
MATH 200	Elementary Linear Algebra	2	
	Aesthetic Analysis (IN-10)	3	
	Physical Activity (P-2)	1	
	Electives	3	
		<u>16</u>	

#### (WINTER ODD)

CPTR 427	Network Security	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	
CPTR 575	Issues in Comp. Sci. & Religion <u>(ODD Winter)</u>	3	
PEAC 425	Fit for Hire (P-3)	1	
		<u>15</u>	

#### (WINTER EVEN)

CPTR 521	Advanced Databases <u>(EVEN Winter)</u>	3	
CPTR 551	Parallel & Distributed Systems <u>(EVEN Winter)</u>	3	
CPHE 598/599	Project/Thesis	2	
	Electives	3	
		<u>11</u>	

**TOTAL HOURS**

157