

**COMPUTER SCIENCE- DIGITAL MEDIA MAJOR BA AND BS SYSTEMS**

CORE			CREDIT						
REQUIREMENTS	DESCRIPTION	HOURS	FALL	J-TERM	SPRING	TAKE	PREREQ	FOUNDATIONAL CORE	
COS103	Computer Science and Engineering: All New Majors Orientation (Course fee for Retreat)	1	F			FR/ New Major			
COS120	Introduction to Computational Problem Solving	4	F		S	Fall-FR		computation requirement	
COS121	Foundations of Computer Science	4	F		S	Spring-FR	SYS 120 or COS 130 or SYS 120		
COS143	Interactive Webpage Design	3	F	J-TERM		Jterm-FR	SYS 120 or COS 130 or SYS 120		
COS243	Multi-tier Web Application Development	3	F		S	SO/JR	COS 121 and COS 143		
COS265	Data Structures and Algorithms	4	F			SO	COS 121		
COS350	Computer Graphics	3	F			JR	COS 121		
COS393	Practicum (summer credit hour costs apply)	3-4	SUMMER			JR	SENIOR STATUS		
COS492	Senior Project-SP	3		J-TERM		SR	SENIOR STATUS		
COS493	Computer Science Senior Capstone	1	F			SR			
SYS214	Principles of Human Computer Interaction	3			S	SO			
		<b>32/33 HOURS</b>							
<b>Select ONE of the Following:</b>									
COS311	Ethics in Computer Science	3			S	JR		Computation requirement	
COS321H	Ethics in Technology * (not currently offered)	3			S	JR			
		<b>3 HOURS</b>							
<b>Select ONE of the Following:</b>									
COS232	Computer and Network Security I	3	F			SO	COS 121		
COS331	Data Communications	3			S	SO/JR/SR	COS 121		
COS351	Computer Vision	3			EVEN	JR/SR	COS 121		
COS424	Surfaces and Modeling	3			ODD	JR/SR	COS 350		
	E-Commerce (CURRENTLY OFFERED AS AN ONLINE COURSE )	3					COS 120 or COS 130 or COS 143 or SYS 120; and COS 102 or SYS 101		
SYS310			TBD			SO/JR/SR	101		
		<b>3 HOURS</b>							
<b>Art &amp; Media Courses</b>									
ART152	Visual Communications	3			S	Spring-JR			
ART154	Digital Tools: Illustrator	1	F		S	Spring-SO			
ART156	Digital Tools: Photoshop	1	F		S	Fall-FR			
ART253	Foundations of Photography	3	F		S	Fall-JR	ART 156		
ART456	Web Animation	4	F			SR	ART 356 or COS 143		
FMP215	Audio Production	3	F		S	Fall-FR			
FMP220	Film and Video Production	3	F		S	Spring-SO			
		<b>18 HOURS</b>							
<b>Select ONE of the Following:</b>									
ART151	Two Dimensional Design	3	F		S			participation in the arts	
ART251	Typography	3	F				ART 101, ART 151, ART 152, and ART 154		
ART353	Commercial Photography	3			S	SR	ART 253		
FMP230	Scriptwriting	3	F			SR			
CAC345	Social Media Strategy	3	F			SR			
		<b>3 HOURS</b>							

**Attendance at 21 Computer Science and Engineering sanctioned events is required**

**BA 59 Hours TOTAL**

OVER

**INFORMATION SYSTEMS AND ANALYTICS REQUIREMENTS FOR BS DEGREE- All systems curriculum courses must be completed**

COS102	Fundamentals of Systems and Computing	3	F			FR		
COS 326	Data Visualization	3			S	JR	Participants are encouraged to take MAT 311 and a statistic course before enrolling. As well as these prereqs: COS 120 or SYS 120; and COS143	
MAT151	Calculus 1	4	F		S	FR	MAT 145 and MAT 146 may be taken as a two-semester substitute for MAT 151	mathematics requirement
MAT382	Advanced Statistical Methods	3	F		S	JR/SR	MAT 210 or MAT 352; and MAT 146 and MAT 151	
SYS390	Information Systems Analysis	3	F			JR	Junior standing: COS 120 or COS 130 or COS 143 or SYS 120; and COS 102 or SYS 101	
SYS394	Information Systems Design	3			S	JR	COS 120 or COS 130 or SYS 120; COS 121 or COS 143; and SYS 390	

**Select ONE of the Following:**

PSY425	Industrial-Organizational Psychology (currently not offered)*	3	F			JR	PSY 100 or instructor's permission	
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SYS330	Human Relations in Organizations	3	F	S	JR		social science requirement
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Select **ONE** of the following:

MAT311	Introduction to data Science	3	F		JR	MAT 210 or MAT 240; COS 120 or SYS 120	
SYS401*	Operations Research	3	F		JR/SR	COS 102 or SYS 101; COS 121 or COS 143; MAT 210 or MAT 352; MAT 151	
SYS402*	Modeling and Simulation * (not currently offered)	3*	TBD		JR/SR	COS 121 or COS 143; MAT 210 or MAT 352; MAT 151	

Select **ONE** of the following:

MAT210	Introductory Statistics	4	F	S	SO/JR		matheatics requirement
MAT352	Mathematical Statistics	4	F		SO/JR	MAT 240	

**ELECTIVES** Select at least 3 hours of electives, in addition to those required in the major or systems.

ENT422	New Venture Planning	3	F	S			
MGT201	Introduction to Business	3	F				
MGT403	Operations Management	3	F	S			
SYS310	E-Commerce (CURRENTLY OFFERED AS AN ONLINE COURSE )	3				COS 120 or COS 130 or COS 143 or SYS 120; and COS 102 or SYS 101	
			TBD				
SYS411	Machine Learning	3		S		COS 121; MAT 210 and MAT 352	

Courses may not be used to fulfill more than one of: Core Requirements, Systems or Electives.

**Degree Requirements**

128 minimum hours and 42 minimum upper-division hours (3XX/4XX course numbers).

Fifty percent of the minimum hours must be completed at Taylor- 64 hours.

Fifty percent of the major/minor hours must be completed at Taylor.

22 of the last 30 hours earned must be completed at Taylor.

Cumulative

GPA of 2.0;

major GPA of

2.3 (higher

GPA may be

required in

certain

curricula).

(See current

catalog for

policy).

All

foundational

cour, major,

minor, and

proficiency

requirements

must be

completed

(including

Senior

Comprehensi

ve

Exam/Paper/

Project).

Two years of one foreign language is required for the BA degree.

Candidates

for 2 degrees

must

complete a

minimum of

158 semester

hours and

meet all

requirements

for 2 different