Program Planning Guides 2018 - 2019

Degree

Data Science and Programming Support Services - *Day*Data Science and Programming Support Services - *Evening*

Certificates

C25590DS	Database Programming - Microsoft
C25590OR	Database Programming - Oracle
C25590SS	Database Programming - SAS
C25590PY	Python Programming

IT - Data Science and Programming Support Services (A25590DS) A.A.S. Degree (Day) PROGRAM PLANNING GUIDE

Updated: Fall 2018

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

		Curriculum By Semester					
		•	Hours P	Hours Per Week			
			Class	Lab	Credits		
FIRST S	SEMESTE	CR CONTRACTOR OF THE CONTRACTO					
CSC	120	Computing Fundamentals I	3	2	4		
CSC	121	Python Programming	2	3	3		
CTI	110	Web, Pgm, and DB Foundations	2	2	3		
ENG	111	Writing and Inquiry	3	0	3		
MAT	152	Statistical Methods	3	2	4		
CECON	D CEMEC	TTD.					
	122		2	2	2		
CSC CTI	122	Python Applications Development Network & Sec Foundations	2	2 2	3		
CTS			2		3		
	115	Info Sys Business Concepts	3	0 2	3		
DBA	120	Database Programming I	2		3		
WEB	115	Web Markup and Scripting	2	2	3		
FIRST S	SUMMER	SEMESTER					
CSC	124	Intro to Programming for Data Science	2	2	3		
DBA	125	Database Reporting	2	2	3		
типрп	SEMEST	ED.					
CSC	152	SAS	2	3	3		
CSC	221	Advanced Python Programming	2	2	3		
DBA	130	Introduction to NoSQL Databases	2	2	3		
DBA	240	Database Analysis/Design	2	3	3		
DDA	240	Major Elective		3	3		
		Major Elective					
FOURT	TH SEMES	STER					
COM	120	Introduction to Interpersonal Communication	3	0	3		
ECO	151	Survey of Economics	3	0	3		
		DBA Elective	-	-	3		
		Project Elective	-	-	3		
		Humanities/Fine Art Elective	3	0	3		

GRADUATION REQUIREMENT:

Credit Hours

IT - Data Science and Programming Support Services (A25590DS) A.A.S. Degree (Day) PROGRAM PLANNING GUIDE

		Hours Per Week						
			Class	Lab	Credits			
Humanities and Fine Arts Electives								
(choose 3	credit ho	ours from the following courses)						
HUM	110	Technology and Society	3	0	3			
	115	Critical Thinking	3	0	3			
HUM	230	Leadership Development	3	0	3			
PHI	240	Introduction to Ethics	3	0	3			
		Required Electives						
Major Ele	ectives							
	minimun	n of 3 credit hours from the following courses)						
CSC	130	Computing Fundamentals II	2	3	4			
	151	Java Programming	2	3	3			
	153	C# Programming	2	3	3			
CSC	154	Software Development	2	2	3			
CSC	227	Cloud Application Development	2	3	3			
CSC	256	Software Quality Assurance	2	2	3			
DBA	224	SAS DB Programming II	2	2	3			
DBA Elec								
		n of 3 credit hours from the following courses)						
	220	Oracle DB Programming II	2	2	3			
DBA	221	SQL Server DB Programming II	2	2	3			
		Project Electives						
		n of 3 credit hours from the following courses)						
CSC	289	Programming Capstone	1	4	3			
WBL	111	Work-Based Learning	0	10	1			
WBL	112	Work-Based Learning	0	20	2			
WBL	113	Work-Based Learning	0	30	3			

*Work-Based Learning is an elective. WBL courses completed for one program may not count toward the completion of another program. Contact your academic advisor or WBL faculty coordinator for verification. Students must have approval from the department head and pre register with the Computer Technologies Division office. As an alternative to CSC 289, three credit hours of Work-Based Learning can be taken. The Work-Based Learning work period may be taken over two semester as WBL 112, over two semesters as WBL-111 and WBL-112 or over one semester as WBL-113.

A.A.S. Degree (Evening) PROGRAM PLANNING GUIDE

Updated: Fall 2018

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for details.

details					
		Curriculum By Semester			
			Hours P	er Week	
_			Class	Lab	Credits
FIRST S	SEMESTE	ir _			
CSC	120	Computing Fundamentals I	3	2	4
CTI	110	Web, Pgm, and DB Foundations	2	2	3
ENG	111	Writing and Inquiry	3	0	3
SECON	D SEMES'	TER			
CSC	121	Python Programming	2	3	3
CTS	115	Info Sys Business Concepts	3	0	3
MAT	152	Statistical Methods	3	2	4
_					
		SEMESTER			
CSC	122	Python Applications Development	2	2	3
DBA	120	Database Programming I	2	2	3
THIRD	SEMEST	ER			
CSC	124	Intro to Programming for Data Science	2	2	3
CSC	221	Advanced Python Programming	2	2	3
WEB	115	Web Markup and Scripting	2	3	3
FOUR	W CD 400				
	'H SEMES		T 2		
CSC	152	SAS	2	3	3
CTI	120	Network & Sec Foundations	2	2	3
DBA	130	Introduction to NoSQL Databases	2	2	3
SECON	D SUMMI	ER SEMESTER			
COM	120	Introduction to Interpersonal Communication	3	0	3
DBA	125	Database Reporting	2	2	3
EIETH	SEMESTE	TD.			
DBA	240		2	3	3
		Database Analysis/Design			
ECO	151	Survey of Economics	3	0	3
		Major Elective	-	-	3
SIXTH	SEMESTE	ER			
		DBA Elective	-	-	3
		Project Elective	-	-	3
		Humanities/Fine Art Elective	3	0	3

A.A.S. Degree (Evening) PROGRAM PLANNING GUIDE

Hours Per Week Class Lab Credits	General Education Electives						
Humanities and Fine Arts Electives Choose 3 credit hours from the following courses				Hours Per Week			
(Choose 3 credit hours from the following courses) HUM 110 Technology and Society 3 0 3 HUM 115 Critical Thinking 3 0 3 HUM 230 Leadership Development 3 0 3 Required Major Electives Major Electives Major Electives (Choose a minimum of 3 credit hours from the following courses) CSC 151 Java Programming 2 3 3 CSC 153 C# Programming 2 3 3 CSC 154 Software Development 2 2 3 3 CSC 227 Cloud Application Development 2 2 3 3 CSC 256 Software Quality Assurance 2 2 3 3 DBA 224 SAS DB Programming II 2 2 3 3 DBA 220 Oracle DB Programming II 2 2 3							

^{*}Work-Based Learning is an elective. WBL courses completed for one program may not count toward the completion of another program. Contact your academic advisor or WBL faculty coordinator for verification. Students must have approval from the department head and pre register with the Computer Technologies Division office. As an alternative to CSC 289, three credit hours of Work-Based Learning can be taken. The Work-Based Learning work period may be taken over two semester as WBL 112, over two semesters as WBL-111 and WBL-112 or over one semester as WBL-113.

Database Programming - Microsoft (C25590SQ)

Certificate (Day and Evening) PROGRAM PLANNING GUIDE

Updated: Fall 2018

Prereq: DBA-120 and MAT-121 or higher

 $Courses\ taken\ more\ than\ 5\ yrs.\ ago\ may\ not\ receive\ transfer\ credit.\ Consult\ your\ advisor\ for$

details.

Curriculum						
	Hours Per Week					
			Class	Lab	Credits	
CSC	153	C# Programming	2	3	3	
CSC	253	Advanced C# Programming	2	2	3	
DBA	221	SQL Server DB Programming II	2	2	3	
DBA	240	Database Analysis/Design	2	3	3	

GRADUATION REQUIREMENT:

Credit Hours

12

Database Programming - Oracle (C255900R)

Certificate (Day and Evening) PROGRAM PLANNING GUIDE

Updated: Fall 2018 Prereqs: DBA-120

 $Courses\ taken\ more\ than\ 5\ yrs.\ ago\ may\ not\ receive\ transfer\ credit.\ Consult\ your\ advisor\ for$

details.

		Curriculum			
			Hours P	er Week	
			Class	Lab	Credits
CTS	115	Info Sys Business Concepts	3	0	3
DBA	125	Database Reporting	2	2	3
DBA	220	Oracle DB Programming II	2	2	3
DBA	240	Database Analysis/Design	2	3	3

GRADUATION REQUIREMENT:

Credit Hours 12

These four courses provide a student with Oracle database programming skills. All of the courses offered are part of the **A25590DS AAS degree**

Database Programming - SAS (C25590SS) Certificate (Day and Evening) PROGRAM PLANNING GUIDE

Updated: Fall 2018

Prereq: DBA-120 and MAT-152

Courses taken more than 5 yrs. ago may not receive transfer credit. Consult your advisor for

details.

Curriculum							
			Hours P	er Week			
			Class	Lab	Credits		
CSC	124	Intro to Programming for Data Science	2	2	3		
CSC	152	SAS	2	3	3		
DBA	224	SAS DB Programming II	2	2	3		
DBA	240	Database Analysis / Design	2	3	3		

GRADUATION REQUIREMENT:

Credit Hours 12

These four courses provide a student with general programming skills for databases. All of the courses offered are part of the **A25590DS AAS degree**

Python Programming (C25590PY) Certificate (Day and Evening) PROGRAM PLANNING GUIDE

Updated: Fall 2018

Prereqs: C25590PF and MAT-152

 $Courses\ taken\ more\ than\ 5\ yrs.\ ago\ may\ not\ receive\ transfer\ credit.\ Consult\ your\ advisor\ for$

details.

Curriculum							
			Hours P	er Week			
			Class	Lab	Credits		
CSC	122	Python Application Development	2	2	3		
CSC	124	Intro to Programming for Data Science	2	2	3		
CSC	130	Computing Fundamentals II	2	3	4		
CSC	221	Advanced Python	2	3	3		

GRADUATION REQUIREMENT:

Credit Hours 13

These four courses provide a student with Python and R programming skills. All of the courses offered are part of the **A25590DS AAS degree**