March 5, 2024

Every Student – Every Time

Leveraging Data to Develop Guided Student Pathways

Lindsey Fifield Director of Strategic Programs





AT GEORGIA STATE UNIVERSITY



















Source: "The Rising Costs of Not Going to College," Pew Research Center, 2014

CA 55%



SOUTHERN EDUCATION FOUNDATION | SOUTHERNEDUCATION.ORG

Data Source: U.S. Department of Education, National Center for Education Statistics, Common Core of Data



Status and Trends in the Education of Racial and Ethnic Groups 2018



Figure 20.2. Percentage of total undergraduate student enrollment in degree-granting institutions, by race/ethnicity:

Data Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Spring 2001, Spring 2011, and Spring 2017, Fall Enrollment component. See Digest of Education Statistics 2017, table 306.10.

An Improbable Transformation

36,000 Students on the Atlanta campus2016 consolidation with Perimeter College adds 5Associate-level campuses and 18,000 students

TΡ











Percent of Georgia State Undergraduates on Pell









	2009-10	2019-2020	Change	% Change
African American	1,001	2,213	+1,212	+121%
Pell	1,298	3,626	+2,328	+179%
Hispanic	196	654	+458	+234%





Increasing graduation rates and closing gaps over time

Six-year Graduation Rates by Demographic at GSU



Are We the Problem?

Systematically redesigning support services at GSU





Student outcome data informs an institutional strategy to redesign systematic processes, and student-facing communication supports coordinated efforts across campus units.



•••

Outreach & Communications

to support the above



"The mission of the NISS is to improve graduation rates and reduce equity gaps nationally by partnering with colleges and universities to identify institutionallycreated obstacles to degree completion and to implement proven and scalable solutions that allow students from all backgrounds to succeed." Institutions inadvertently hinder their students' success through policies, practices, and structures that are among the key drivers of student attrition and equity gaps.



Institutions can use data to identify and to understand these institutionally created barriers to completion.



Action-oriented institutions with the right coaching and support can create stronger and more equitable enrollment, retention, and graduation outcomes.





Average Number of Majors Cycled Through By Graduating Seniors in 2010



20

Business Education Exploratory STEM Humanities & Arts Health Professions Policy/Social Science





Fall 2018 Academic Outcomes for Bachelor's Level Freshmen

Freshmen Learning Community Status	Students	GPA	Avg. Hours Attempted	Avg. Hours Earned	Spring Retention
FLC	3,417	3.18	14.5	13.4	95.5%
Non-FLC	875	3.09	13.6	12.0	92.2%

Fall 2018 Academic Outcomes for Associate Level Freshmen

Freshmen Learning Community Status	Students	GPA	Avg. Hours Attempted	Avg. Hours Earned	Spring Retention
FLC	1,512	2.22	12.7	9.4	90.5%
Non-FLC	1,058	2.05	11.1	7.3	83.7%

Math Courses

Course Number	Learning Community	Students	Course GPA	OFW Rate
997	PLC	349		38.1%
	Non-PLC	290		44.5%
999	PLC	66	-	33.3%
	Non-PLC	45		40.0%
1001	PLC	755	1.96	37.6%
	Non-PLC	473	1.50	54.3%

Fall 2018 PC Outcomes by Learning Community Participation Fall 2018 New Freshmen (non-Honors, non-Athletes)

By Subject

Subject	Learning Community	Students	Course GPA	DFW Rate
ENGL	PLC	1,260	2.27	27.6%
	Non-PLC	795	2.14	35.2%
MATH	PLC	1,172	1.81	42.3%
	Non-PLC	670	1.70	48.5%

English Courses

Course Number	Learning Community	Students	Course GPA	DFW Rate
999	PLC	245		18.0%
	Non-PLC	218		30.3%
1101	PLC	1,243	2.27	29.5%
	Non-PLC	762	2.13	36.5%
1102	PLC	17	2.38	29.4%
	Non-PLC	32	2.39	40.6%







Drop in Major Changes After the Freshman Year



Students Who Dropped Out of Georgia State in 2010



Predictive Analytics Project with EAB

10 YEARS
OF DATA2.5 MILLION
GRADES144,000
STUDENT RECORDS8000+
ANALYTICS-BASED
ALERTS

30,000 STUDENTS DAILY



Graduation Rate in Major by Introductory Course Grade



28

B.S. in Chemistry

	SEMESTER 1		SEMESTER 2
 Complete 1 Complete M Complete C 	of ENGL 1101, ENGL 1102 or ENGL 1103 (C or Better) ATH 1113 or Higher (B- or Better) HEM 1211K (B- or Better)	•	Complete ENGL 1102 or 1103 (C or Better) Complete MATH 2211 or Higher (B- or Better) Complete CHEM 1212K (B- or Better) Maintain a cumulative GPA of 2.25 or Better
	SEMESTER 3		SEMESTER 4
 Complete C Complete M Complete PI 	HEM 2400 (B- or Better) ATH 2212 (C or better) HY 2211k (C or better)	•	Complete CHEM 3410 (C or better) PHY 2212k (B- or Better) (C or better) Maintain a cumulative GPA of 2.25 or Better
	SEMESTER 5		SEMESTER 6
Complete C Complete C	HEM 4000 with a C or Better HEM 4110 with a C or Better	•	Complete CHEM 4010 with a C or Better Complete CHEM 4120 with a C or Better
	SEMESTER 7		SEMESTER 8
Complete C	HEM 4160 with a B- or better	•	Complete CHEM 4190 with a C or Better

106,000 Advising Meetings Annually



Hours at Graduation Native Freshmen Bachelor's Students

— Median Hours at Graduation







\$21 million

Savings to the Class of 2021 in tuition and fees when compared to the Class of 2012

Academic Program Design



Program Admission Redesign

- Realistic GPA requirements
- Heavier importance placed on predictive courses
- Provide alternative options early

<u>Results</u>

Fall 2008 Entering Cohort: **37% graduation rate** Fall 2013 Entering Cohort: **54% graduation rate**



What can we do?



Basics

Key Elements

Recommended sequence of courses



۲× م×

Includes ALL credits needed for degree



Guide for students and staff



Developed with departments



Consistent and easy to follow

30 credits per year 2/4 yr. graduation pace



Includes milestones & prerequisites



Publicly available





Students: Informed place to start



Advisors: Visual to help guide and advise students



Academic Departments: Program assessment & deepen connection between academics and career

Program Map Examples – Georgia Southern University

Student Services Center				Progr)	Catalog Ver			ar: 2023-2024		
Studient:	_	_	_		-			_	10		
Fall	Sain	Grade	- 891	Mirstanes	Spring		Sem	Oranie	Http	Mile	
ENGLISSE Composition I	-	_	1	Complete ENGL 1900	CSCI 1302	Principles of Programming II	-		3	Complete ENGL 130	
MATH \$643 Calcolus	-	-	4	Get Tutoring Help!	MATH 2342	Calculos II	_	-	4	Carrylete CBO 1302 with a C or texter	
CSO 1301 Principles of Programming I	-	_	4	Complete Area A MATH requirements	8NGI 1302	Composition II		-	1.	Complete Area A within the first year	
WRLDHIST HIST 1111 OR 1112			1	Complete CSCI 1001 with a C or Setter1	US HIST	USA Comprehensive Survey			1	Complete MRTH 2342 with a C or bette	
FYE 1320 First Near Experience			2	Complete FYE 1230	KINS 1525	Concepts of Health & PE	1	1	1	Manzan Good Arademic Stands	
				Explore sample activities and arganisations				A			
					-			1.11			
	1.1	1.1	1.0		2.			1000	1.4		
Contraction and a second structure of the second	din and	Total	16	1.5.5.1.5.5.1.5	1		122122	Total	.15	3.3020-	
The Meet with your Academic Advisor before your Attend to Academic Success Windshee to inter she	registration	date so	you can	register on time!	Tips: Get invol	lved in the Aurora Game Development () and with CS pages, buttors, and faculty	NO-IN AC	will if you !	NAME NO	rt alveady.	
Towns a series and a series	a tree na	-	C Grany	de barrender en 1	Constantin (1994)	Target credit hours 31/134		2020-0		Total credit hours earne	
Fall	Sem	Grade	Hin .	Missioner	Spring		Sem	Grade	-	Lation Section 1	
CSCI 2525 Survey Programming Languages		100	3	Complete all LSD oburses with a C or better	C\$CI 2120	Computer Offics and Society	1.000	A	2	Complete all CSCI courses with a C or beth	
CSO 2625 Disoretie Structures	1200		3	Complete COMM 1110 with a C or Beller	CSCI MIRO	Gata Structures		1	3	Complete Legislature Requirement	
MATH 2160 Linear Algebra			3	Create a resurse and dover letter	CSCI 3336	Theoretical Foundations		1.1	1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
COMM 1130 Public Speaking			1	Campleta MATH 2160 with a C or Setter	POLS 1101	American Government			1	1	
Area D Lab Science	1		4	Pave returns and opver latter ontigued	Area D	Science with lab (Start of Sequence)		1.1	4	1	
	_			by Caneer and Professional Development						1	
	-				1					1	
					13				-	1	
		Testal	18		-			Total	15	1	
Top, Visit the Gener & Professional Development O Replore Co-Ops and Internalisps. Losik into undergra	The to lear thate resea	in more a	bout p rtunitie	stendal career paths for your major! s.	THE STAT AD	plying and interviewing for summer interr	ships		-		
Table Whit the Carner & Professional Development D Replore Co-Ops and Internation. Look into undergra-	this to lear duate resea	n more a rch oppe	dout p rtunite	ntential career paths for your major! s.	Then Start age	plying and interviewing for summer interv Target oredit hours 63/124	ships!	-	-	Total credit hours earne	
Table White the Carner & Professional Development O Replace Co-Ops and Internalings. Look into undergra Fail (20213385) anton to Operating Solutions	Tice to lear dwate resea	en more a ech oppo deata	Novi p rtunita	nterstal career paths for your major! 5. Constance of CO stores with a C or barrier.	Ten Sering	plying and interviewing for summer interv Target oracit hours 63/124	see.	Grade	-	Total credit hours earne	
Total Visit the Carner & Professional Development O Replace Co-Opt and Internaligs. Look into undergra Refl. CSCI 3341. Entro to Operating Systems CSCI 3422. Dereting Systems	The to lear duste resea	ech oppo	Nes 1	Interdial-Career paths for your major! 5. Complete all CSO opures with a C or better Complete All CSO opures with a C or better	Spring CSO 3321	Pying and interviewing for summer interv Target orkeit hours 63/124 Intro to Software Engineering Community Ambantum	Seren	Grade	H1	Total credit hours earne Mile Research printing Desture Proper	
Tops, Visit the Career & Professional Development O Profere Co-Ops and Internation. Look into undergra- Ref. CSC 3343	Tice to lear dwate resca	ech oppo	Nes 3	Interdial-Caneer guidts for your major! 5. Complete all CIO oburses with a C or better Complete S1ST 1011 with a C or better Complete S1ST 1011 with a C or better	Sering CSO 3321 CSO 838	Fying and interviewing for summer interv Target oredit hours 63/134 intro to Software Engineering Computer Architecture Americke Achieves & Dealers	See.	Grate	H15	Total credit hours earne Mile Research primiter Distance Progra Besarch polential Distance Program	
Tigg: Visit the Career & Professional Development O Profere Co-Ops and Internaligs: Sock into undergra Raff CSC 3141	Tice to lear dually research	deater	Here a	Internalial career paths for your majori 5. Complete all CSO oburst with a C or better Complete S151 5421 with a C or better Consider an Engineericent insdemby 158	Spring Circl 3121 Circl 3121 Circl 3121 Circl 3130	Target ofeRt Nours 63/124 Target ofeRt Nours 63/124 Intro to Software Engineering Computer Architecture Algorithm Analysis & Design District Oferson from Area 1	Sem	Grade	HIS 3 3	Total credit hours earne bits fearerth primter is eleven for financi, polential frequent financial polential frequent	
Table Visit the Carner & Professional Development O Replace Co-Ops and Internalings. Look into undergra Fail CSO 3513	Nor to lear dually repose	drater	Nes 1 1 1 1 1 1 1	Interchail career paths for your majori 5. Complete all CSD oburses with a C or better Complete S151 1421 with a C or better Consider an Organizational landership tole	Sering Circl 3121 Circl 3121 Circl 3121 Circl 3121 Circl 4130 Area L	Itying and interviewing for summer interv Target oredit hours 63/124 Intro to Software Engineering Computer Architecture Algorithm Analysis & Design Electher Choice from Anal E Electher Choice from Anal E	Som	Grade	HT 1 1 1	Total credit hours earne Mile Banezh pteste i industr Pope Misuech pderetal Employ Bheat a Caser Fo Compete all CBC contest with a C or Set	
Total Professional Development O Replace Go Opt and Internaligs. Look into undergra Ref CSO 3341 brins to Operating Systems CSO 3342 Database Systems STAT 5400 Zementary Systems Science Seq. Complete Science Sequence Receive Rective Free Elective	See	drate	0001 () rtunto 3 3 4 3	Interdial-Career paths for your majori 5. Complete all CSO oburses with a C or better Complete S151 bitty with a C or better Consider an friguescalional leadership tole	Sering CSO 3321 CSO 8881 CSO 8881 CSO 8881 CSO 8881 NTS 2130	Itying and interviewing for summer interv Target oredit hours (3)/124 Intro to Software Engineering Computer Anthecture Algorithm Analysis & Design Dective Choice from Anal E Intro to Interviduand Studies or other contine	See	Grade	HT 1 1 1 3	Total credit hours earne Mile Research provide limitant Progra Brearch prioritial Fraging Strend a Carol Comparts all CIIC contrast with a C or Sett Topice Accelerate Mathematics to Maile	
Tigg: Visit the Career & Professional Development O Profere Co-Opt and Internaligs. Look into undergra Raff. CSCI 3341. Intero to Operating Systems CSCI 3442. Darabase Systems STAT 5401. Zemeentary Societics Science Seq. Complete Science Sequence Elective. Prec Elective	See	drate	60ut p rtunits 3 3 4 3	Interdial-Career paths for your major Complete all CSO oburset with a C or better Complete S151 tably with a C or better Consider au-fragmentional indeeding Isla	Tan, Hart and Soring CSC 3321 CSC 3321 CSC 3431 CSC 4130 Area L INTS 2130	Aling and interviewing for summer interv Target oredit hours 63/124 https://doi.org/interviewing Computer Antibecture Algorithm Analysis & Design Elective Choice from Anse E Intro to Interviewed Studies or other option.	See.	Grade	H1 1 1 3 3	Total credit hours earne Mile Research primiter Distance Progra Brownech polential Transform Stream a Cancer Fi Competer All CBC courses with a Cancer Toplane Accelerated Bachelors to Media	
Table Visit the Carner & Professional Development D Replayer Co-Ops and Internatings. Look into undergra Fail CSO 3943 International Systems CSO 3043 Darshare Systems STAT 5401 Ziementary Statistics Science Seq. Configient Science Sequence Elective Proc Elective	There to lear dwatte rejoco	dente	60ut p rtunto 3 3 3 4 3	Interdial Career publis for your majori 5- Complete all CSO oburst with a C or better Complete S151 5421 with a C or better Consider an Engenerational Indentity Ital	1001, 51447 440 Sectors CSC 3321 CSC 3321 CSC 3431 CSC 4130 Aves L 19475 2130	Ityling and interviewing for summer interv Target offelft hours 63/124 Intro to Software Engineering Computer Architecture Algorithm Analysis & Design Electher Oncor Anna E Intro to Intervisional Studies or other option	See.	Grade	HIS 1 1 3 3	Total credit hours earne bits fearerth primter is estant Page Brown A point at Ender Brown A Constant Compete at CIO context with a C or Set Toplere Accelerated Bachelors to Media	
Tigg: Whit the Career & Professional Development O Replace Co-Opt and Internaligs Look into undergrading Refl CSCI 3341 Intro to Operating Systems CSCI 3341 Intro to Operating Systems State 5400 CSCI 5432 Database Systems State 5400 State 5400 Zenewatery Societics Societics Science Seq Conglete Science Sequence Bective Tigg: Take a Loadership role in a campus organisation Societics	Tion to lear during rises	deate deate Total	New provide the second	ternilai career paths for your majori s Complete al CSO sturnet with a C or better Complete S151 talty with a C or better Consider an frighteenformt indentity tale upolier Science.	Tan, Start and Sector CSC 3321 CSC 4330 Acces L INTS 7130 Tan, If conside	Ityling and interviewing for summer interv Target oredit hours 63/124 Interview Architecture Algorithm Analysis & Design Destine Orden from Ass or other option ering graduate school, identify pessible of	See	Grute Total d obtain	1 1 3 3 13 13	Total credit hours earne Mile Research prioritar Distance Propile Broarch, polential Distance Propile Broard a Cancer Pa Congrete All CID contres with a C or best Topline Accelerated Rechelors to Meste Ress information.	
Total Description Pall CSO 3341 brief to Operating Systems CSO 3341 brief to Operating Systems CSO 3341 brief to Operating Systems CSO 1612 Darabase Systems STAT 5400 Zementary Statistics Science Seq. Complete Science Sequence Bective Pret Bective Pret Bective Tagg. Take a Londership role in a campus organisate	The to lear durin recea Sam	deate Total	bout p rtunita 3 3 4 3 4 3 5 5 m Cor	Interclui career puths for your major! 5. Complete all CSO sturies with a C or better Complete S151 1421 with a C or better Consider an Organizational leadership tole spotter Science.	Tan, Start and CSC 3121 CSC 3121 CSC 4131 CSC 4131 Area L INTS 2130	Internet or and interviewing for summer interv Target credit hours (3)/124 Inter to Software Engineering Computer Architecture Algorithm Analysis & Design Detther Check from Area E Inter to International Studies or other option tering products school, identify possible of Target credit hours \$4/124	Sim Sim	Total	1 3 3 15 15	Total credit hours earns Mile Research patients i treture Propo Research patients i treture for Research patients at Case of Compete at CBC courses with a C or Set Toplare Accelerated Receiptors to Medit open information. Total credit hours earns	
Total Professional Development O Padiore Co-Opt and Internalizational Development O Professional Development O Padi CSO 3341 Detro to Operating Systems CSO 3341 Detro to Operating Systems CSO 1612 STAT 5400 Zementary Statistics Science Seq Science Seq Complete Science Sequence Elective Projective Projective Imposite Science Sequence Science Seq Complete Science Sequence Elective Tagg, Take a Londership role in a campus organisate Fadi	The to lear durin recea Sam	deate deate Total Dob title	May 15 Street Control of Control	Interclui career puths for your majori s.	Table Start and Sectors CSC 3321 CSC 3321 CSC 4330 CSC 4330 Area E INTS 2130 Table If coread Spring	Nying and interviewing for summer interv Target credit hours G3/124 Intro to Software Engineering Computer Architecture Algorithm Analysis & Design Elective Check from Area E Intro to International Studies or other option tering publishes school, identify pessible or Target credit hours 94/124	see	Grade	HIS 1 3 3 15 15 15 15 15 15 15 15 15 15	Total credit hours earns Mile Research patients it initians Propo Besarch patientian It initians Besarch patiential It initians Besarch patiential Competer all CBC instrems with a C on Self Topline Accelerated Bachelors in Media Initians initians Initians Initians CBC Patientians Initians Initians	
Tigg: Visit the Career & Professional Development O Replace Co-Opt and Internaligs Look into undergrading Refi CSO 3341 Internaligs Look into undergrading CSO 3341 Internaligs Systems CSO 3442 CSO 3442 Darabase Systems Stat 5400 Elementary Systems Stat 5400 Elementary Systems State 5400 Elementary Systems Science Seg Energistric Societies Societies Societies Science Seg Energistric Societies Societies Societies Tigg: Take is Lookership role in a campus organization Fail CSO 5332 Data Communication and Networking Societies and Networking	Then to lear dwatter reports Seen 6. Reports Seen 8	Total	Head Point P		Titti, Start and Sector (SC) 3321 (SC) 4330 (SC) 4330 Area E (NYS 2130 Titti, if conside Sector (SC) 5431	Infing and interviewing for summer interv Target ortefit hours (3)/124 Inter to Software Engineering Computer Antifette B Design Desther Ontoe from Ante E Inter to Interview Antifette Studies or other option Inter graduate school, identify pessible or Target credit hours 94/124 Computer Security	See	Total dobtain	HIS 1 3 3 13 15 10 10 10 11 15 10 10 11 15 10 10 11 15 10 10 10 10 10 10 10 10 10 10	Total credit hours earns Mile Research patientian limitante Propie Brouwch, potentian limitante Propie Browner I, potentian Frequency Comparts all CIIO constrain with a C on Seet Toplane Accelerated Rechetors so Media Toplane Accelerated Rechetors so Media rooms information. Total credit hours earns Mile Brown Timp planearch areas	
Table Professional Development O Replayer Co-Ops and Internatings. Look into undergraded and the sendergraded and the send	The to lear dwite rises Seen 1. Research Seen 8.	Total Grate Grate	Head of perturbation of the second se		Spring Spring (\$67,3121) CSO,3121 CSO,3121 CSO,3121 CSO,3121 CSO,3121 CSO,3121 CSO,321 CSO,3121 CSO,321 Ings, 47 coreside Spring CSO,3431 CSO,3431 CSO,3431 CSO,3431 CSO,3431 CSO,3431	Infing and interviewing for summer interv Target orkelit hours (3)/124 Intro to Software Engineering Computer Archäecture Algorithm Analysis & Design Electher Onice from Area E Intro to informational Studies or other option terreg particule school, identify pessible o Target credit hours 94/124 Computer Security Computer Science Capition	Sim Sim Chools an	Total d obtain	1 1 3 3 13 13 13 15 15	Total credit hours earns Min Assects printin limitator Page Brauers, extention instant Page Brauers, extended frequent Braine & Calo Instant with a C or best Toplere & colorine With Brahelons to Media Upps information. Total credit hours earns Min Brain the pile search areas	
Table Team Table White the Carmer & Professional Development O Replace Co-Ope and Internalings Look into undergrading Systems CSC 3341 Intro to Operating Systems CSC 342 Darabase Systems STAT 5401 Temestary Statistics Science Seq Complete Science Sequence Bettive Free Elective Table Temestary Statistics Science Seq Complete Science Sequence Bettive Free Elective Table Data Communication and Wetworking CSC 51332 Data Communication and Wetworking CSC 1980-Disconse Design CSC 19832 Data Communication and Wetworking CSC 1980-Disconse	Tick to lear Authority rises Seen 5. Research Seen 8.	Total	6004 p rtunita 3 3 3 4 3 4 3 15 5 m Cor 8 8 3 3 3 3 3 3	Interdial career paths for your majori S Interdial career paths for your majori Complete all CIO oburses with a C or better Complete S1X1 http://with.a C or bette	Spring Spring (SG 3132) (SG 3132) (SG 3133) (SG 3133) (SG 3133) (SG 3133) (SG 3133) (SG 3133)	Infing and interviewing for summer interv Target oraclit hours (3)/134 Intro to Software Engineering Conguter Archaecture Algorithm Analysis & Design Electher Chelon from Area E Intro to Intervisional Studies or other option tering graduate school, identify pessible of Target credit hours \$4/124 Computer Security Computer Security Computer Security	See	Total Grade	1 1 1 3 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1	Total credit hours earns New York States (Second Second Se	
Table Professional Development O Paginer Go Ope and Internaliga. Look into undergrading of the control of the sendergrad of the control of the sendergrad of the control o	Tick to lear durity rises Seen 6. Research Seen 8	Tetal	0001 p rtunits 3 3 3 4 3 4 3 4 3 3 3 3 3 3 3 3 3 3 3	Interdial Career publis for your major! S Interdial Career publis for your major! Complete all CSO sturners with a C or better Complete SIST tatty with a C or better Complete all CSO sturners with a C or better Complete all CSO sources with a C or better Attend Last Advisement Second Raphy for Contaction Raphy for Contaction	Spring CSC 3321 CSC 3321 CSC 3321 CSC 3321 CSC 3321 CSC 3321 CSC 3321 CSC 3321 CSC 3430 CSC 5431 CSC 5431 CSC 5431 CSC 5431 CSC 5536 CSC 5536 Free Distory Free Distory	Infing and interviewing for summer interv Target oracit hours 63/124 Interview Architecture Algorithm Analysis & Design Destine Obser from Anal Batther Observe Statements Computer Science Capitane	shipsi See	Total Grade	Het 3 1 3 3 3 3 3 13 3 13 13 13	Total credit hours earns Mile Research patients it initians Prope Brouwch, patientian Dealers Brouwch, patientian Conser Fi Complete all CBC constrain with a C on Self Toplane Accelerated Richeltons to Media Depter Accelerated Richeltons to Media Open information. Total credit hours carries Mile Bright The patients of the Dealers Complete all CBC topens with a C on Self Bright De Job Starts, with a C on Self	
Table Fundamentational Development O Replayer Co-Opic and Internatings Look into undergrading of the second of the seco	Tick to lear dustr rises Seen 6 Rescards Seen 8	Total	Res 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Table Start and Sering CSC 3121 CSC 8381 CSC 8381 CSC 8381 CSC 8381 Area E NYS 2130 Table F coresid Spring CSC 5431 CSC 5431	Infing and interviewing for summer interv Target orkelft hours 63/124 Inter to Software Engineering Computer Architecture Algorithm Analysis & Design Dectmer Oncor from Area E Inter to intervision Area E Inter to intervision Area E Inter to intervision Area E Inter to intervision Area E Inter to the intervision Area E Intervision Area Area Area Area Area Area Area Area	ships!	Grade	Hes 3 1 3 3 13 3 13 13 15 15 15 15 15 15 15 15 15 15	Total credit hours earne Mile Research patients it instants Propie Research patiential fingulage Research patiential fingulage Research and a constant Toplane Accelerates with a C on Sect Toplane Accelerates Research as no Complete Accelerates Milling Regin The pati search as no Complete CORC 30 Complete all CEC sources with a C on Sect Bay Cap B Gow	
Table Table Review Co-Ope and International Development O Review Co-Ope and Internations. Look into undergrad CSO 3813 Intro to Operating Systems CSO 3813 Intro to Operating Systems STAT 5401 Temestary Statistics Science Seq. Complete Science Sequence Hectory Tage, Take a Leadership role in a campus organization Fail CSO 3812 Data Communication and Networking CSO 5832 CSO 5832 Data Communication and Networking CSO 5832 CSO 180ctive CSO 180ctive Area C SNGE 2100/2111/2132 or PHE 2010	Tick to lear hute rises Seen 6. Research Seen 8. 2010	Total	Provide particular de la constante de la const		Spring Spring (\$0,3121) (\$0,3121) (\$0,3121) (\$0,3121) (\$0,3121) (\$0,3121) (\$0,3121) (\$0,3121) (\$0,321,4130) Accest (\$0,721,4130) Accest (\$0,721,4130) Accest (\$0,721,4130) Accest (\$0,721,4130) (\$0,721,4130) (\$0,721,4130) (\$0,721,4130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) (\$0,721,7130) <	Infing and interviewing for summer interv Target orkelit hours (3)/124 Intro to Software Engineering Computer Archäecture Algorithm Analysis & Design Elective Onicio from Area E Intro to Informational Studies or other option terreg products school, identify pessible or Target credit hours (4/224 Computer Security Computer Science Capitane COAH Capitane Course (choose \$1004) Elective Onice from Area B	skipsi See Chooks an See	Total Grade	101 1 1 3 3 3 10 10 10 10 10 10 10 10 10 10	Total credit hours earns Min Annach primter instant Prope Annach point instant Prope Annach point instant Comp Annach point instant Comp Annach point instant Anna Compete all CIO context with a Comp Annach point instant Annach point instant	
Table Table, White the Carmer & Professional Development O Replayer Co-Ops and Internatings. Look into undergo Fail CSC 3341 string to Operating Systems STAT 5401 Darabase Systems STAT 5401 Remember Statistics Science Seq. Complete Science Sequence Houtive Tage, Take a Loodership role in a campus organization Science Seq. Stat Darabase Systems Science Seq. Complete Science Sequence Houtive Tage, Take a Loodership role in a campus organization Science Seq. CSO 5132 Dara Communication and Vertextraintic CSO 5133 Dara Communication and Vertextrain CSO 1802/vertex CSO 1802/vertex CSO 1802/vertex Science Science Systems Design CSO 1802/vertex Statistics	Tick to lear duste riseo Sam Rescarch Sem 8 2010	An more a children opportunity of the opportunity o	0001 p rtunits 3 3 3 4 4 3 4 3 4 3 3 3 3 3 3 3 3 3 3		Sering (SC) 3121 CSO 31321 CSO 31321 CSO 31331 CSO 31311 CSO 31311 CSO 31311 Area E INTS 7130 Taga, if coreside Spring CSO 51310 CSO 513100 CSO 513100 CSO 513100 CSO 513100 CSO 513100 CSO 513	Infing and interviewing for summer interv Target orkeft hours (3)/124 Intro to Software Engineering Computer Architecture Algorithm Analysis & Design Electher Oncion Prim Area E Intro to Informational Studies or other option terring products school, identify possible or Target credit hours (H/124 Computer Science Capitane Coddt Capitane Course (choose S104) Electher Oncion from Area B	See	Grade	11 1 3 3 13 10 10 10 10 10 10 10 10 10 10	Total credit hours earns Min Research primter landauter that Research patential implay Research patential implay Research patential implay Research patential implay ress information. Total credit hours earns Regis the patential name Complete COE 20 Complete IT CIC sources with a C or best Regis the patential name Complete COE 20 Complete IT CIC sources with a C or best Reg Cap & Sow Graduat	
Table Table Replayer Co-Ope and Internatings. Look into undergraded and internatings. Look into undergraded and international Development O Fail CSO 3412 Barabase Systems STAT 5401 Barabase Systems State 5401 STAT 5401 Barabase Systems State 5401 STAT 5401 Barabase Systems State 5401 State 5401 Famementary Statistics Scence 5401 State 6 Free Bective State 5401 Tage, Take a Loadership role in a campus organization State 5401 CSO 5132 Data Communication and Networker CSO 15132 Data Communication and Networker CSO 15132 Barabase 510(2)11/2112 or PHO 2010 Area C State 200(2)11/2112 or PHO 2010	Tick to lear hute rises Seen 6. Research Seen 8 2010	Tretal	0001 9 rtunto 3 3 3 4 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3		Spring (Sci 3)21 CSC 3121 CSC 3121 CSC 3121 CSC 3131 CSC 3131 CSC 3132 NTS 7130 NTS 7130 Jags, if conside Spring CSC 5131 CSC 5131 CSC 5131 CSC 5131 CSC 5131 CSC 5131 CSC 5131 CSC 5131 CSC 5132 CSC 5131 CSC 5131 CSC	Nying and interviewing for summer interv Target orkelit hours (3)/124 Intro to Software Engineering Computer Archäecture Algorithm Analysis & Design Electher Onlos from Area E Intro to Informational Studies or other option torong products school, identify pessible or Target credit hours (4/224 Computer School, identify pessible or Target credit hours (4/224 Computer School Capitone COAE Capitone Course (choose \$1004) Electher Onlose hom Area B	See	Grade	13 3 3 13 3 13 13 10 10 10 10 10 10 10 10 10	Total credit hours earns bits fearaith primter landaute Prope Brown A patential Frequence Brown A Carlo II Compare all CIO content with a C or best Toplere Accelerate With a C or best Toplere Accelerate Bachelors is Main earns information. Total credit hours earns Brogs the pile search arms Brogs the pile search arms Brogs the pile search arms Brog Direct CIO contracts with a C or best Brog Direct CIO contracts with a C or best	
Table Table White the Carmer & Professional Development O Replace Go Ope and Internalings Look into undergrad CSO 3341 Intro to Operating Systems CSO 3342 Darabase Systems STAT 5401 Temestary Statistics Science Seq Complete Science Sequence Bettime Free Elective Table Temestary Statistics Science Seq Complete Science Sequence Bettime Free Elective Table Operating Systems CSO 5332 Data Communication and Networking CSO 5436 Data Communication and Networking CSO 5438 Data Communication and Networking CSO 5436 Data Communication and Networking CSO 5436 Data Communication and Networking CSO Elective Area C Area C ENGL 2100/2111/2112 or Pres 2010 Table Description in a conter with your advection	Tick to lear hute rises Seen 6. Research Seen 8. 2010	Total	ere and a second percent perce		Table Start and Sectors CSC 3321 CSC 3321 CSC 3321 CSC 4330 CSC 4330 CSC 4330 CSC 4330 CSC 4330 CSC 5431 CSC 5431	Align and interviewing for summer interv Target oraclit hours (3)/124 Interview Schware Engineering Computer Archaecture Algorithm Analysis & Design Electher Onion from Anna E Interviewitsend Studies or other option or other option. Target credit hours 94/124 Computer Security Computer Security	See	Grade Total	13 3 3 3 13 13 13 13 13 13 115	Total credit hours earns Mile Research patients it inture Prope Research patients it inture Research patients at the search Search patients with a C on Search Depters Accelerated Rechetors to Media Depters Accelerated Rechetors to Media Open information. Total credit hours carrie Regis The pile search proc Complete at CEC searchs with a C on Sea Complete at CEC search with a C on Sea Signification Complete at CEC search with a C on Sea Scientist	

Georgia Southern University accepts the premise that altinately a student's program is his or her own responsibility. Taking any coarsework that does not fit within your chosen program of study may impact your financial aid.

3001-2022 Calulog

https://www.georgiasouthern.edu/cec/advisement/files/CS-Program-Map-2023-2024-PDF.pdf



MARKETING

AN ADMISDR'S WARE IS

The Division of Marketing, NPL, and Entrepresentation uffect a Bachetics of Backets Administration (BBA degree in Marketing, Professionals that work is marketing arm to get and keep customers by determining and satisfying customer result, and works in a diverse market. This is done by making sure the company has their right products and/or invices and that these are correctly promised, distributed, and priced. In the marketing program, yao, will liam how to be effective at personal selfug promotion development and execution, even constitution, customer to sperioric design, supply chain manupervent, analytics, market research, social metals, digital minareting, and strategy planning. Marketing majors can there are areas of emphase in Cooperative Analytics, product or Society or Society and and or and or and plans.

1		-	FALL REMISTURE	-	-	-		-	SPHING SEMIRITIE	P		-
		CODE	COURSE NAME	-	HRS	GRADE	1.000	CODE	COURSE NAME		HRS	GRADE
		795308	First Year Sets Ork Thinking		3			18.207	Legal Environment of Business		3	_
		DiG tot	English Composition I		18			EOL250	Principles of Microsomoreau		10	-
		\$TA 150	Fundamentati of Statistica		3	_	-	-CMMI 307	But & Prof Communication		3	
8		STATIST.	Fundamentals of Statistics Lab		1	_		-50	Physics or Natural Science		4	1
		P\$7 201	General Psychology (CT)		.8				Proc Arts		8	
1		MI5296	Ray Computer Applications		3	-						
-		LNI 100	Frederium First Class									
		TOTAL HO	NINS		17			TOTAL HO	oves		18	
	Sum		(hout)									
	-		PARTICIPATION OF THE OWNER	_					STUDING BRANISSING		-	
		0004	COCUSE NAME		1485	GRADE		0004	COURSE NAME	1	1005	GRADE
		ACC 115	Accounting Principles (CT)		1			ACC 216	Principles of Accounting		1.1	
		80N.213	Principles of Macmanismus	100	1000		-	MOT 218	Balters Danifiche Melhols	10.0		
		1945 201	Advanced Composition		-	_		Dog.204	Withing for the Workplace			-
5			Intellaction		1				Desidentia		1	
2		-	CMM Studen Eaction			_		_	Numanities			-
3												
~												
		TOTAL HO	1085		15			TOTAL HO	1085		15	
	3 and	mar Tarre ity	rimit									
			FALLSEMESTER					-	SPIGNO 15 MESTER			
		CODE	COURSE NAME		HIS	GANDE	120	0001	COURSE NAME		1085	GRADE
		ANT 141	WCT Concepts and Applications				-	ANT 141	Intergrated MRT Communications			
	-	MRT 211	Principles of Selling		1	_		ANTIT	International Marketing	489	1.	-
8		MG7 528	Principles of Management		- 3	_			MAT (Includ		3	
Ξ.		FIFE 225	Principles of Finance			-		_	MCT Electrice		3.	_
E		ANS 210	Principles of MS	•		-			Free Elective			-
4												
2		TOTAL HO	ours		15			TOTAL HO	ouns		18	
	Sales	mar Satta (m	rimati									
	-	-	PALL REMINITIES		-				SPRING SEMILITER		-	
		0000	COURSE NAME		1485	GRADE		CODE	COURSE NAME		1485	GRADE
		MRT-437	Consumer Behavior		1	_		MIT-MIS	Shakepic Marketing			
		MIT HE	Marketing Research		1			MCT 480	Disabasia, Management			
		_	MKT Elective			-			free Dective		3	-
8			MC Decive		1				Free Decise		14	
8		-	Time Electrice									
3		-										
_												
F								-	1 mile		100	
F		TOTAL HE	ouen.		15			TOTAL HO	oues.		12	



https://www.marshall.edu/advising/2020-21-academic-maps/

Program Map Examples – Middlesex Community College





MIDDLESEX COMMUNITY COLLEGE: + LOWELL CAMPUS, 33 REARIEY SQUARE: + BEDFORD CAMPUS, 501 SPRINGE BOAD

https://www.middlesex.mass.edu/advising/downloads/maps/2020-2021/bac.pdf

Program Maps – Assessment Guide



	Foundational			Intermediate		Advanced
Design Components						
Consistent Design	No consistent element	S	•	Some consistent elements	•	All maps follow the same format
Program Information	Name of program inclu	uded	•	Description of program included with possible specializations	•	Description, name, learning outcomes and career skills and opportunities included
Graduation Pace	• 4-year completion not considered		•	Completion not considered until program level	•	All Program Maps are achievable within a 4-year time frame
Content Components						
Course recommendations	No specific courses liste	ed	•	Some specific courses listed	•	Maps include specific course recommendations for all degree reqs.
Math/ English Component	• English and Math cours are not prioritized in Yr	rses r. 1	•	Partial English or Math requirements completed in Yr. 1	•	English 1101, 1102 and relevant Math courses are completed in Yr. 1
Program engagement	Not considered		•	Maps include basic program milestones and pre-requisites	•	Maps include ALL program milestones including experiential learning opportunities
Engagement Components						
Accessibility	 Not available or available paper copy 	ble in	•	Available in a single location on the web and linked to depts.	•	Mobilized into interactive or predictive software
Student Communication	 Not or rarely used with students 	า	•	Program maps are consistently used with students	•	Proactively reviewed by staff and students contacted about progression
Review Process	 No program maps are reviewed annually 		•	Some program maps are reviewed and updated annually	•	All program maps are reviewed and updated annually

Institutional Goal

To systematize the design, review, and usage of program maps on campus to establish a consistent standard of care for students regardless of program of study.

	3 month	6 month	9 month
Foundational	 Identify leadership and team Align on implementation goal Establish timeline 	 Identify campus resources/ departments Collaborate to establish program map template 	 Build draft maps for each major Develop plan for student usage/ rollout
Intermediate	 Identify program leadership and add to team as needed Align on program development goal Establish timeline for completion 	 Gain consensus on map template Systematize and build out program maps for all majors 	 Establish a 'standard of care' that integrates maps into daily usage Determine program map location and accessibility options for students
Advanced	 Identify leadership and team Align on implementation goal Establish timeline 	 Evaluate existing map structure to transition to momentum maps Elevate career and experiential learning opportunities into maps Review operational usage of maps to ensure maximization 	 Strengthen and standardize review process Explore digitized options for program maps Begin discussions on how program maps could be used to influence course availability



Thank you!



AT GEORGIA STATE UNIVERSITY



Lindsey Fifield

Senior Program Advisor **NISS**



