

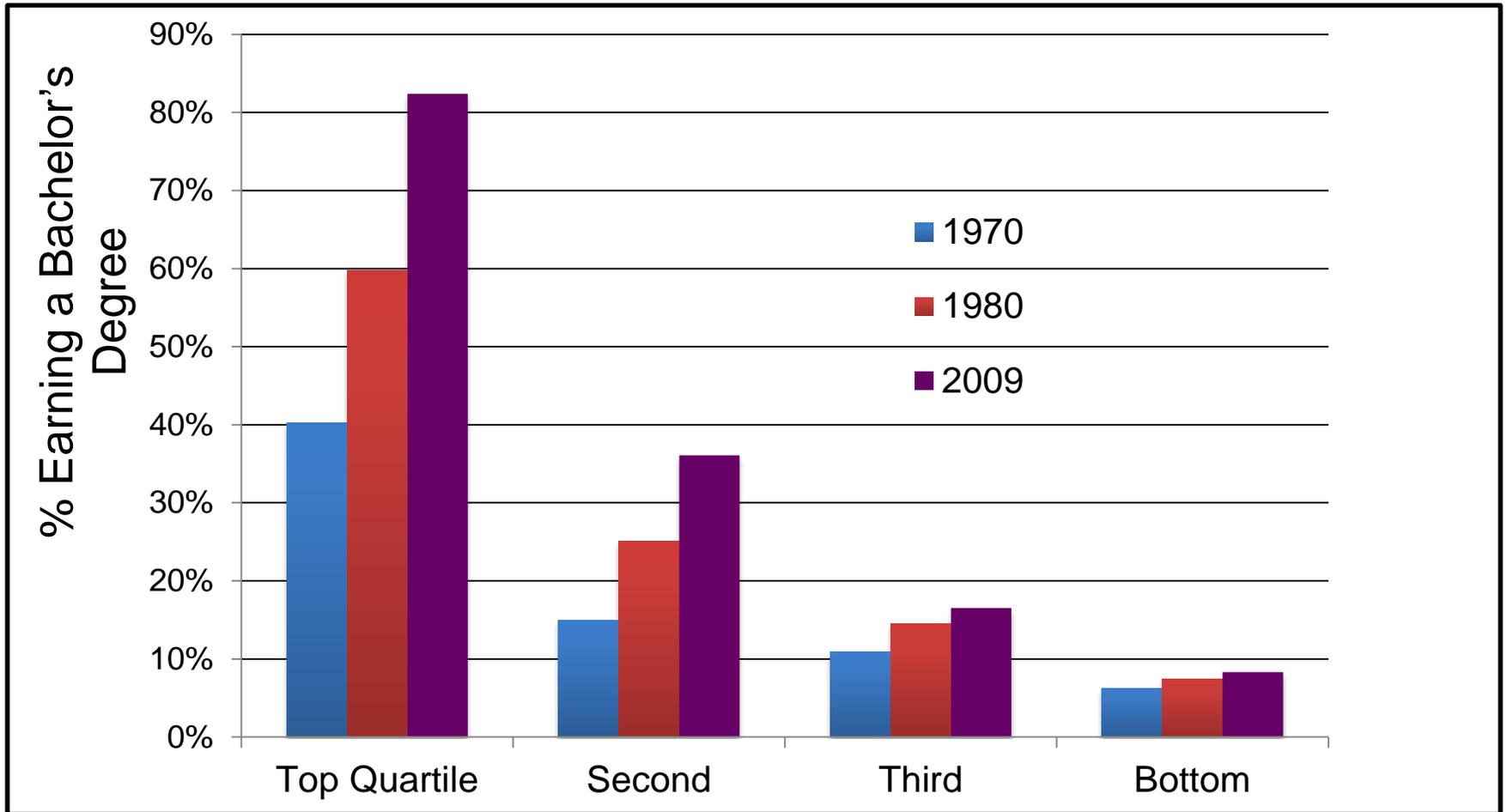
Graduation is Everyone's Business

Larry Abele
Missouri State University
October 12, 2016

Our Challenges

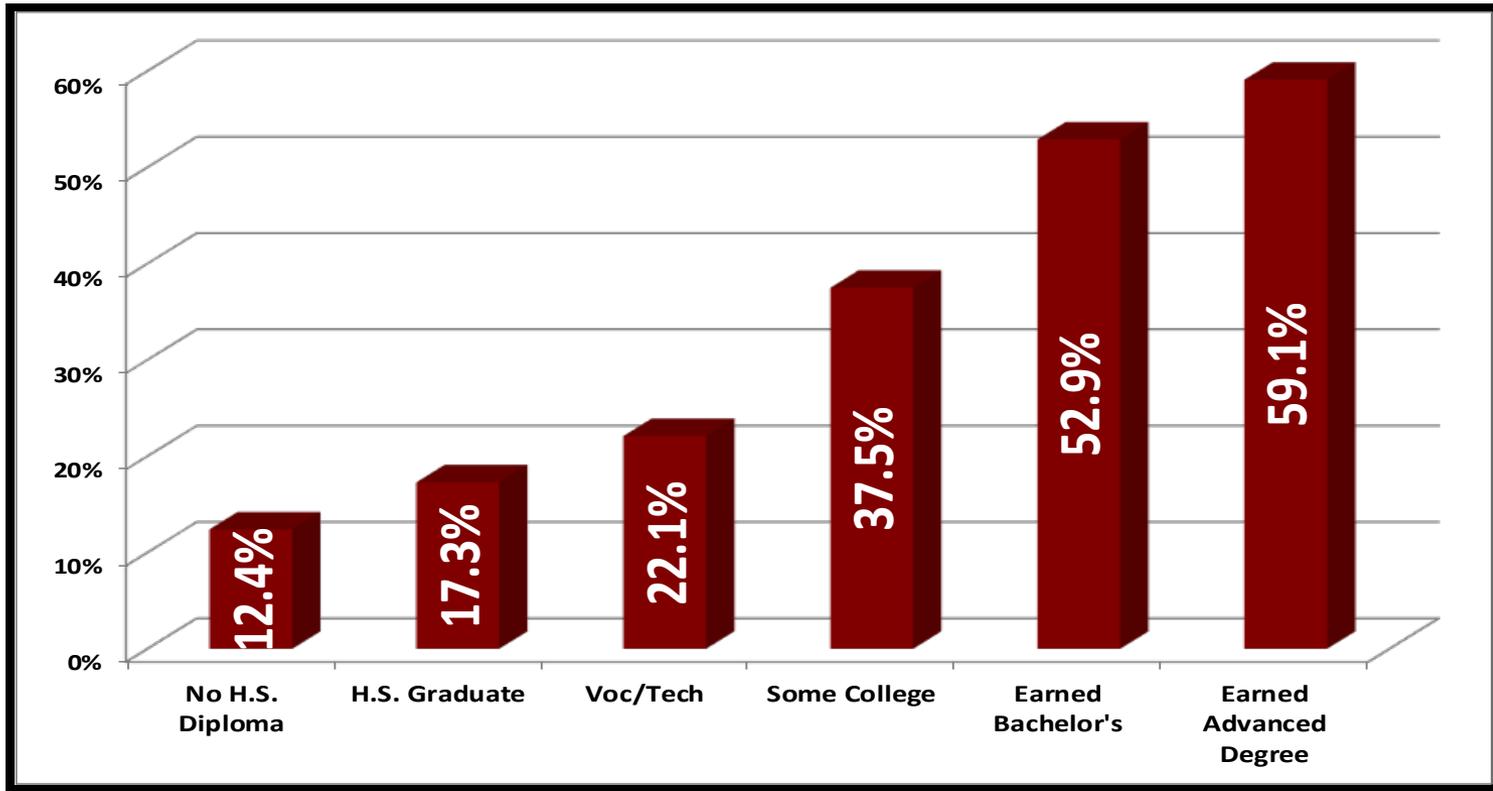
- LOW GRADUATION RATE
- TOO MUCH TIME TO A DEGREE
- EXCESS HOURS
- HIGH COSTS
- TOO MUCH DEBT
- EDUCATIONAL INEQUALITY

The Education Gap by income has increased significantly since 1970



The advantages of parents' educational levels are transferred to their children

% Children Attaining Bachelor's Degree or Better



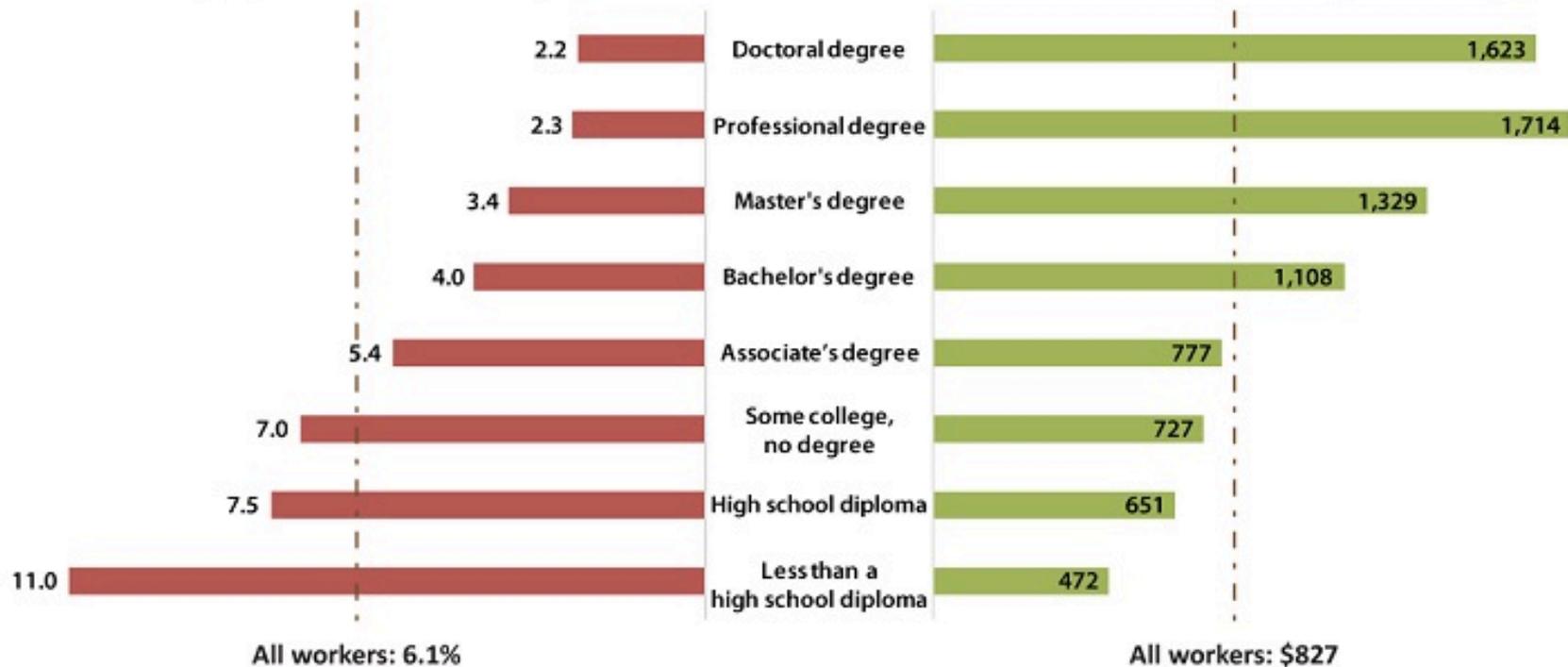
Educational Level of Parents

A college degree is a huge economic advantage

Earnings and unemployment rates by educational attainment

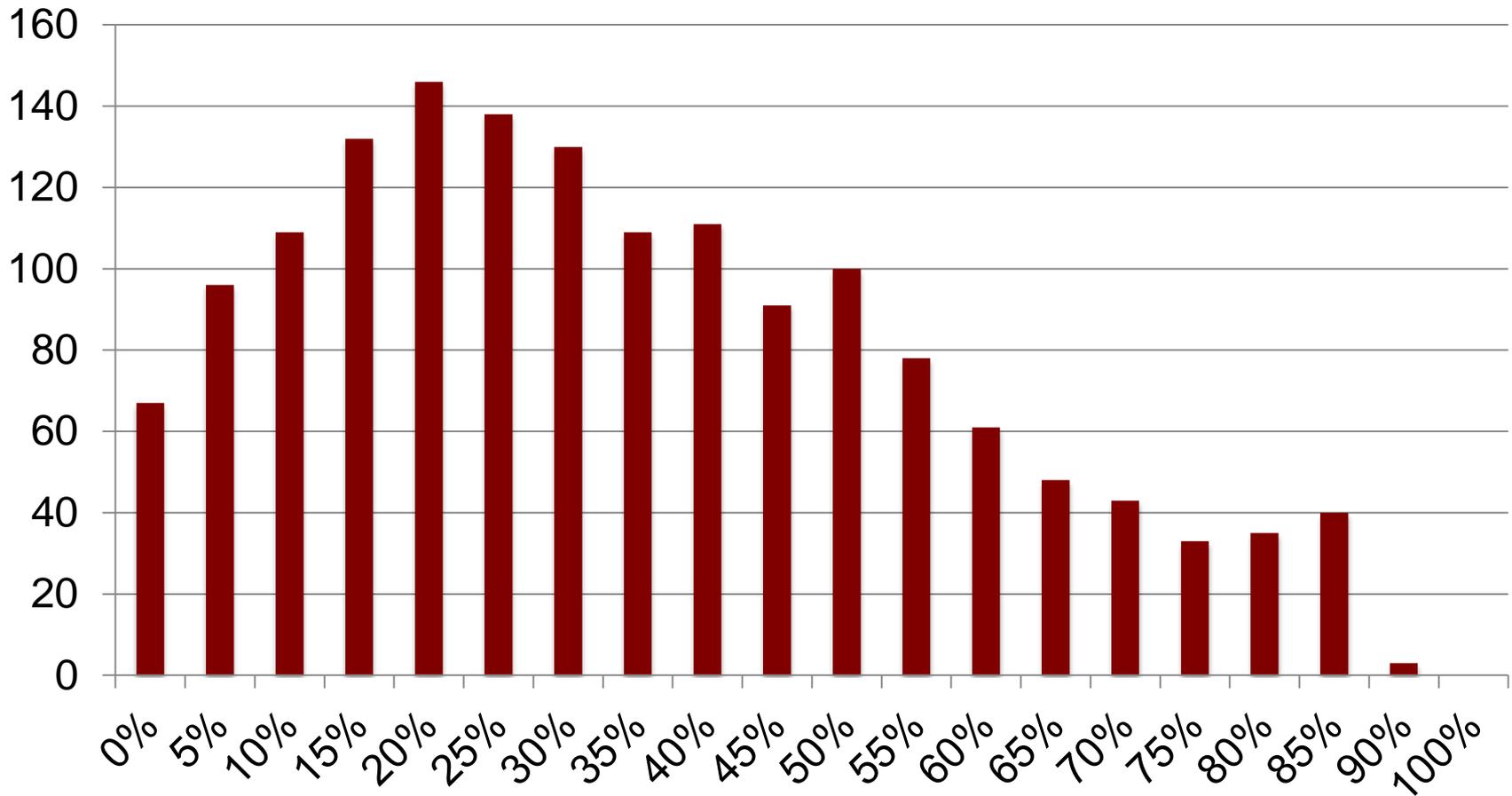
Unemployment rate in 2013 (%)

Median weekly earnings in 2013 (\$)



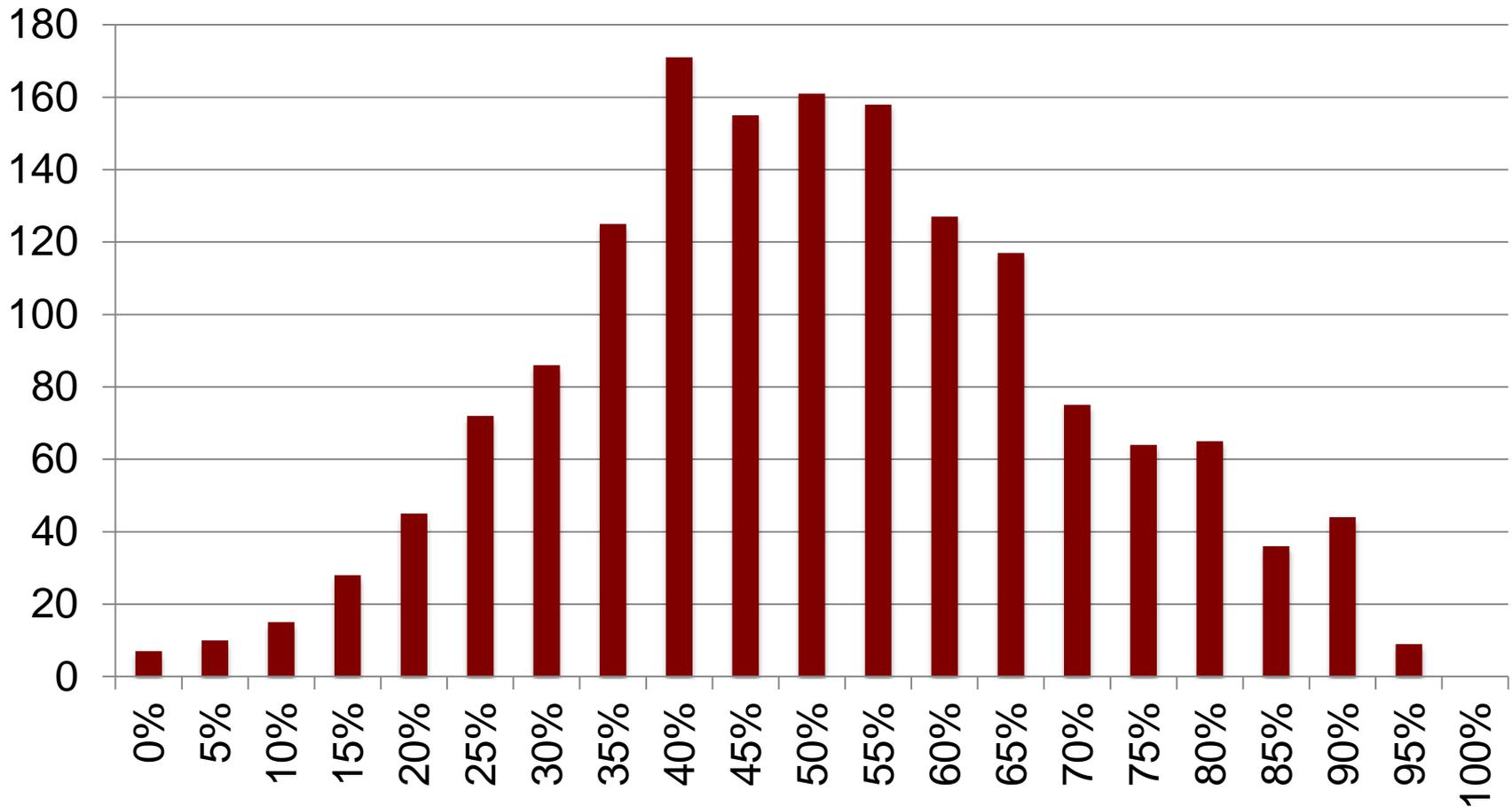
Note: Data are for persons age 25 and over. Earnings are for full-time wage and salary workers.
Source: Current Population Survey, U.S. Bureau of Labor Statistics, U.S. Department of Labor

The four-year graduation rate for all US baccalaureate institutions* is distressingly low



*2013 IPEDS, n=1570, institutions with <50 in cohort excluded

Even the six-year graduation rate for all US baccalaureate institutions* is low



*2013 IPEDS, n=1570, institutions with <50 in cohort excluded

Student Achievement Measure*: six year outcomes for students who started at four-year publics**

State	Total rate	Starting institution	Different 4-yr	Different 2-yr	Still Enrolled	Not Enrolled
Nat'l	61.16%	48.44%	9.46%	3.26%	14.20%	24.64%
MO	62.18%	39.36%	17.70%	5.13%	15.58%	22.23%

**Data: National Student Clearinghouse Research Center, Signature Report 10, Table 3

*<http://www.studentachievementmeasure.org/>

Shapiro, D., Dundar, A., Wakhungu, P., Yuan, X., Nathan, A & Hwang, Y. , A. (2016, February). Completing College: A State-Level View of Student Attainment Rates (Signature Report No. 10a). Herndon, VA: National Student Clearinghouse Research Center.

Student Achievement Measure*: Six Year Outcomes for Students Who Started at Two-Year Publics

State	Total rate	Starting institution	Diff. 2-yr	Diff. 4-yr	Sub. 4-yr Inst.	Total 4-yr	Still Enr.	Not Enr.
Nat'l	38.14%	26.00%	3.18%	8.96%	6.11%	15.07%	16.60%	45.27%
MO	37.02%	22.81%	6.16%	8.06%	7.39%	15.45%	13.08%	49.90%

**Data: National Student Clearinghouse Research Center, Signature Report , Table 3, State Suppl.

*<http://www.studentachievementmeasure.org/>

Shapiro, D., Dundar, A., Wakhungu, P., Yuan, X., Nathan, A & Hwang, Y. , A. (2016, February). Completing College: A State-Level View of Student Attainment Rates (Signature Report No. 10a). Herndon, VA: National Student Clearinghouse Research Center.

ACADEMIC MAPS: A CORE ELEMENT OF GUIDED PATHWAYS

Guided Pathways to Success

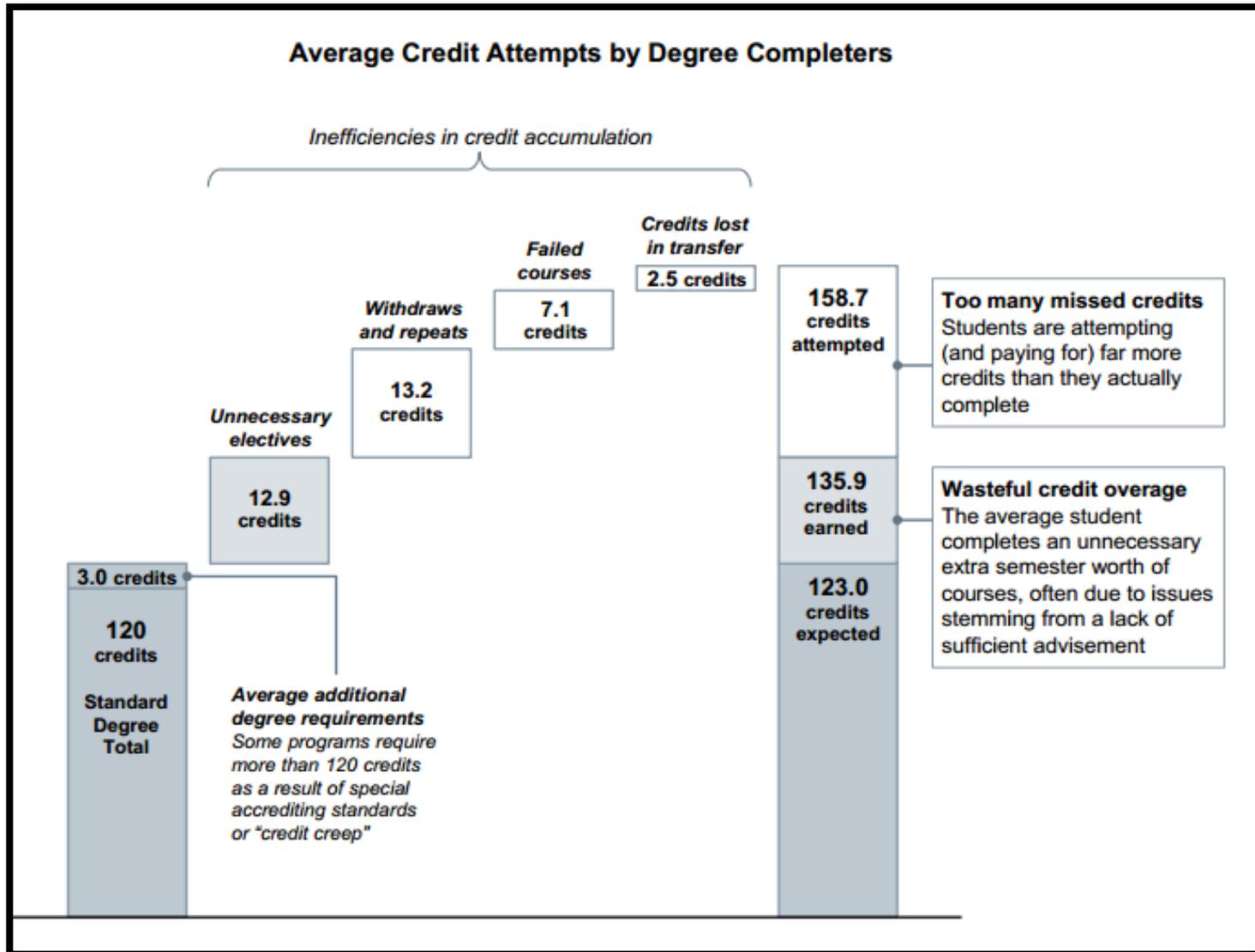
Academic Maps are the solution to almost all of our challenges: excess hours, time to degree, high costs and low graduation rates

- **BUT only if academic policies are implemented and followed.**

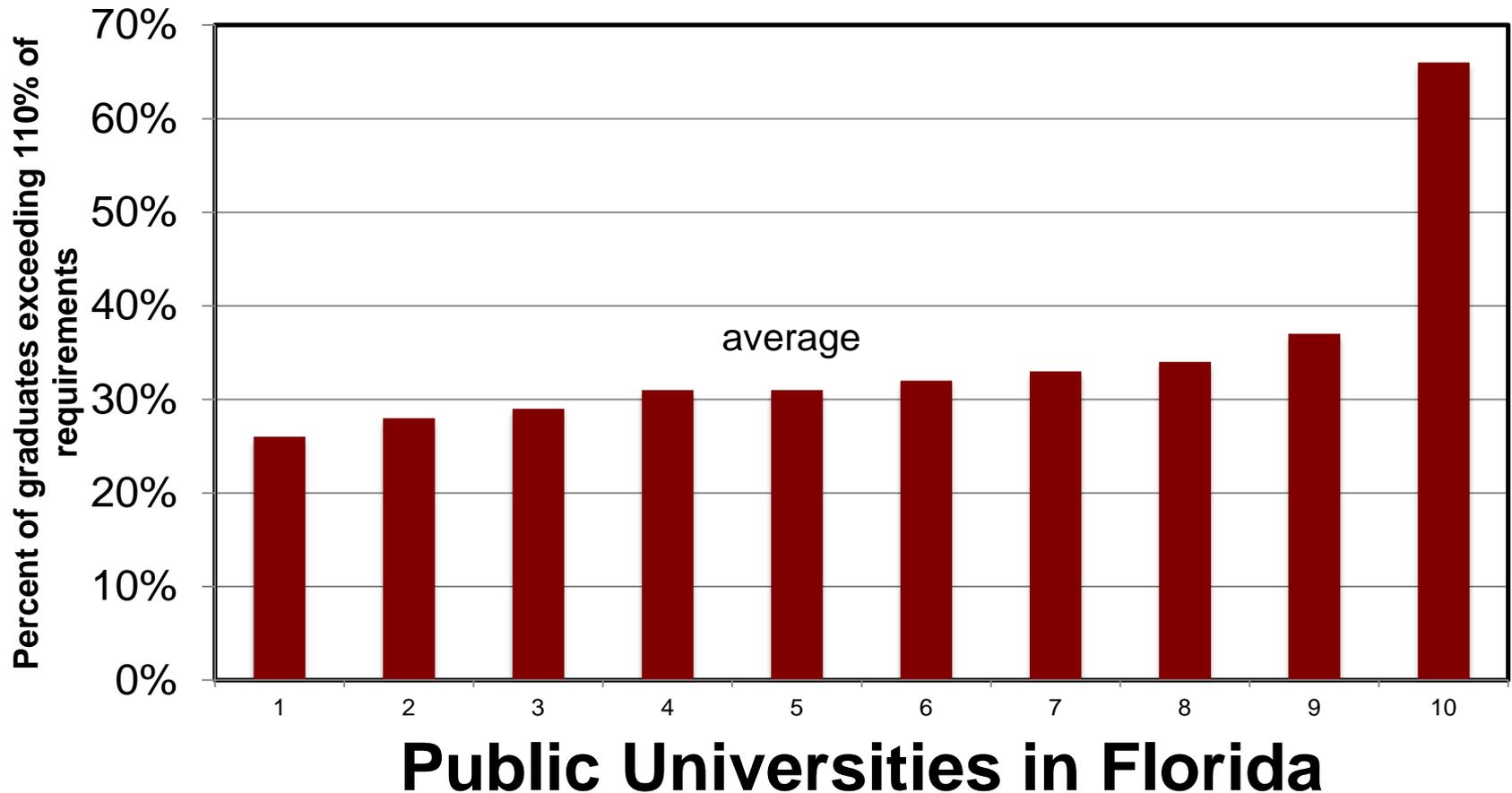
Without guidance or barriers students begin college without enrolling in the appropriate courses accumulating excess hours right from the start

- 40% of STEM majors do not take any mathematics during their first year in a four-yr. college (n~7,800)
- 49% of STEM majors do not take any mathematics during their first year in a two-yr., college (n~5,600)

Nationally, students who do graduate often take extra years and extra credits



Almost 20,000 FL graduates in 2014 exceeded 132 hours at graduation, costing them and the state hundreds of millions of dollars



Source: BOG Accountability Report 2013-14

Distribution of Excess Hours by Student Type*

n	Type	Mean	Median	Range
1785	FTIC	135.5	131	120-254
1037	AA	135.9	131	120-269
261	Transfer**	137.6	133	120-254
3,083		135.9	131	120-269

* None of these students have applied for graduation.

** Transferred from another university without a degree.

Sample of students with > 120 hours from a SUS institution

A tale of two students

	STUDENT ON MAP	STUDENT OFF MAP*
YEARS IN SCHOOL	FOUR	TEN
TOTAL CREDITS	129	224
TUITION AND FEES	~\$22,000	~\$38,000
TOTAL COST	~\$76,000	~\$190,000
LOST SALARY*	0	~(\$270,000)
ADDITIONAL COST	0	+~\$400,000

*Average starting salary in discipline

The students graduated 2 years later with 270 hours.

Why Students Drift, Accumulate Excess Hours and Fail to Graduate

- Insufficient advising
- Catalogs are difficult to understand
- General Education requirements are confusing
- Cannot enroll in the required class: not enough seats, not offered, time conflicts with other classes, etc.
- Do not understand course prerequisites and/or course sequencing
- Course withdrawals, repeats, and failures
- Changing majors late in academic career



GENERAL EDUCATION REQUIREMENTS

(Select 12 courses from this list of more than 300)

Basic Liberal Studies Requirements: [2 courses must include the Diversity (D) overlay]

English Communication: 6 credits; 3 credits must be in a writing course

Writing (ECw): ELS 112, 122 (nonnative speakers); HPR 326; WRT 104, 105, 106, 201, 227, 235, 302, 303, 304(D), 305(D), 333.

General (EC): COM 100(D), 110(D); LIB 120; PHL 101.

Fine Arts and Literature (A): 6 credits; 3 credits in Fine Arts and 3 credits in Literature

Fine Arts: ARH 120(D), 251(D), 252(D); ART 101, 207; FLM 101(D), 203(D), 204(D), 205(D); HPR 105, 124, 201A, 202A, 324; LAR 201; MUS 101(D), 106(D), 111, 292(D), 293(D); PLS 233; SPA 320(D); THE 100, 181, 351(D), 352(D), 381, 382, 383.

Literature: AAF 247(D), 248(D); CLA 391(D), 395(D), 396(D), 397(D); CLS 160(D); ENG 110(D), 160(D), 241(D), 242(D), 243(D), 247(D), 248(D), 251(D), 252(D), 260(D), 262(D), 263(D), 264(D), 265(D), 280(D), 300(D), 302(D), 303(D), 304(D), 317(D), 355(D), 357(D), 358(D); FRN 309(D), 310(D), 320(D), 391(D), 392(D), 393(D); HPR 105, 125, 201A, 202A; RUS 391(D), 392(D); SPA 305(D), 306(D), 307(D), 308(D); WMS 317(D).

Language/Culture (FC): 6 credits

- Demonstration of competence through the intermediate level by examination or successfully completing through 104 (living language) or 302 (classical language)
- Two-course sequence (or one course at the 113 level) in a previously studied language through at the appropriate level (all D): ARB 103, 104; CHN 103, 104; FRN 103, 104; GER 103, 104; GRK 301, 302; HBW 103, 104; ITL 103, 104, 111; JPN 103, 104; LAN 193, 194; LAT 301, 302; POR 103, 104; RUS 103, 104; SPA 103, 104, 111, 113, 210.
- Two-course sequence (or one course at the 111 level) in a language not previously studied (or studied for less than two years in high school) through the beginning level: ARB 101, 102; CHN 101, 102; FRN 101, 102; GER 101, 102; GRK 101, 102; HBW 101, 102; ITL 101, 102; JPN 101, 102; LAN 191, 192; LAT 101, 102; POR 101, 102; RUS 101, 102; SPA 101, 102.
- Study abroad in an approved program for one semester
- Major in a foreign language
- Formerly registered international students, students with recognized immigrant status, or naturalized citizens (at Dean's discretion)
- Two courses in Cross-Cultural Competence: CPL 300(D); FRN 309(D), 310(D), 320(D), 391(D), 392(D), 393(D); HIS 132(D), 171(D), 172(D), 180(D), 311(D), 327(D), 374(D), 375(D); HPR 201F, 202F; LET 151L(D), 151Q(D), 151R; NRS 300; PHL 331(D); RLS 131(D); SPA 320(D), TMD 224(D); six credits of a full-semester approved Intercultural Internship in a foreign country through the Office of Internships and Experiential Education

Letters(L): 6 credits

AAF 150(D), 201(D), 355(D), 356(D); APG 327; BGS 392(D); CLS 160(D), 235; EGR 316(D); ENG 110(D), 160(D), 243(D), 251(D), 252(D), 280(D), 355(D), 356(D); FRN 391(D), 392(D), 393(D); HIS 111, 112, 113(D), 114(D), 116, 117, 118(D), 130(D), 132(D), 141(D), 142(D), 145(D), 146(D), 150(D), 160(D), 171(D), 172(D), 180(D), 304, 305, 310(D), 311(D), 314, 323(D), 327(D), 332(D), 333(D), 340(D), 341(D), 346(D), 351(D), 355(D), 356(D), 374(D), 375(D); HPR 107, 201L, 202L, 307; JOR 110(D); LAR 202(D); LET 151L(D), 151Q(D), 151R(D); NUR 360(D); PHL 101, 103, 204, 210(D), 212(D), 215, 217(D), 235, 314, 316(D), 321, 322, 323(D), 325(D), 328(D), 331(D), 346, 355; PSC 341, 342; PSY 310; RLS 111(D), 125, 126, 131(D); WMS 220(D), 315(D), 320(D)

Mathematics(MQ): 3 credits satisfied by MTH 141

BUS 111, CSC 101, 201; HPR 108, 201M, 202M; MTH 106, 107, 108, 109, 111, 131, 141; PSC 109; STA 220.

Natural Sciences(N): 6 credits; satisfied by PHY

AFS 190, 210, 211; APG 201(D); AST 108, 118; AVS 101(D); BCH 190; BIO 101, 102, 105, 106, 286(D); BPS 201; CHM 100, 101, 103, 112; GEO 100, 102, 103, 110, 113, 120; HPR 109, 201N, 202N; MIC 190; NPS 207; NRS 190; OCG 110, 123, 131; PHY 109, 111, 112, 140, 185, 186, 203, 204, 205, 273, 274, 275; PLS 150, 190; TMD 113

Social Sciences(S): 6 credits

APG 200(D), 202, 203(D), 301(D); CPL 202(D); ECN 100(D), 201, 202, 306, 381(D); EDC 102(D); EEC 105, 310, 356; GEG 101(D), 104(D), 202(D); HDF 225; HPR 110(D), 201S, 202S; HSS 130; JOR 110(D); KIN 123(D); LIN 200(D); MAF 100; NUR 150(D); PSC 113(D), 116(D), 274(D), 288; PSY 103(D), 113(D), 232(D), 235(D), 254(D), 255(D); SOC 100(D), 212(D), 230(D), 240(D), 242(D), 274(D); TMD 224(D), WMS 150(D)

Typical General Education Requirements ~45 hours (partial list)

General Education and Other Graduation Requirements AIMS – Achieving Integration & Mastering Skills

First Year Seminar	Area C: Arts and Humanities		SELF: Student Enrichment and Lifelong Fulfillment	Th.
<i>Take two courses.</i>	<i>Take one course from each sub-area.</i>		<i>Take a course that can double count in another area or a stand-alone course.</i>	
CSUB 1009: Seminar I	C1. Arts	Th.		
CSUB 1019: Seminar II	ART 1009: Practice & App. Of Visual Art (WC-co)	R	BA 1008: Fundamentals of Business	
ECE/ENGR 1618: Intro to Engr I	ART 1019: Art in Context		KINE 1018: Lifetime Fitness	
ECE/ENGR 1628: Intro to Engr II	ART 2508: Art, Prehistory to 1400 (WC)	R	PHIL/INST 2329: Sexual Ethics [also C2]	Q
Area A: Foundational Skills	ART 2608: Art, 1400 to Present (WC)	R	PSYC 2648: Living the Green Life	
<i>Take one course from each sub-area. Must be completed with a grade of C (2.0) or higher</i>	MUS 1019: Music Appreciation		PSYC 3318: Adult-Child Relationships	
A1. Oral Communication (OC)	MUS 1039: Jazz Appreciation (WC-co)	R	PSYC 3648: Environmental Psychology	
COMM 1008: Strat. for Public Speaking	MUS 1049: Music Global Perspective (WC-co)	Q	PSYC 4358: Positive Psychology (CT, OC) [also UDD]	Q
A2. Written Communication (WC)	THTR 1008: Beginning Acting [also SELF]		SOC 2018: Self & Society	
ENGL 1109: Writing & Research	THTR 1019: Dynamic Leadership through Improv [also SELF]		THTR 1008: Beginning Acting [also C1]	
A3. Critical Thinking (CT)	THTR 1109: Intro to Theatre (WC)	Q	THTR 1019: Dynamic Leadership through Improv [also C1]	
<i>Student must have completed Area A2</i>	C2. Humanities	Th.	JYDR: Junior Year Diversity Reflection	
PHIL 1019: Critical Thinking	COMM/ENGL 2518: Intro to Film Studies		<i>Take one course.</i>	
PHIL 2019: Ethical Reasoning	ENGL 1208: Intro to Literature		<i>Area A, B, C and D must be completed before taking JYDR course.</i>	
SCI 1409: Intro to Scientific Thinking	ENGL 2208: American Lit Survey I (CT, WC)	R	BA 3008: Diversity in Business Org. (WC)	
SOC 1018: Contemp. Social Problems	ENGL 2308: British Lit Survey I (WC)	R	COMM 3088: Gender & Communications (WC, CT)	
A4. Quantitative Reasoning (QR)	ENGL 2408: Intro to World Lit (WC)	S	ECON 3008: Gender & Div. in Workplace (WC)	
MATH 1009: Modern Math & Apps.	HIST 1418: World Hist Pt. 1 (WC-co)	R	EDTE 3308: Sociocultural Found. of Edu. (WC)	
MATH 1209: Stats in Modern World	HIST 1428 World Hist Pt. 2 (WC-co)	R	ENGL 3119: Adv. Writing (WC) [also GWAR]	
PSYCH 2018: Stat Methods for Research	PHIL 1119: Intro to Philosophy		HIST 2328: American Indian History (WC)	
SOC 2208: Intro to Stats for Research	PHIL 1319: Cont. Moral Problems (CT)	S		
Area B: Natural Sciences	PHIL 2119: Great Philosophical Ideas (CT)	R		

A PARTIAL LIST OF COURSE REQUIREMENTS FOR A HISTORY MAJOR

(Select at least 2 courses from AMH, WHO, EUH and 1 from ASH)

EUH 3530. England, the Empire and the Commonwealth (3). This course offers a history of Great Britain and the Empire-Commonwealth since 1783 and developments within the Commonwealth itself. Some consideration is given to post-World War II changes within Britain and to Britain's foreign affairs.

HIS 2050. The Historian's Craft (3). In this course, students learn how to conduct primary source historical research, and turn their research findings into a high-quality paper based on professional history standards.

HIS 3464. History of Science (3). This course is a study of the mutually-shaping relationships between social and political ideas and the histories of the various sciences.

HIS 3491. Medicine and Society (3). This course examines the development of public health and the history of medicine in the United States from the colonial period to the present. Topics cover changes in the medical knowledge, the medical profession, government responsibilities, and public responses; how individuals accept, modify, or react to medical authority; how race, class, gender, and ethnicity shape health practices and the delivery of medical care; how the health of a community can be protected; and what constitutes a public health hazard.

LAH 1093. Latin America: A Cross-Cultural History (3). This course is a cross-cultural history of Latin America focusing on women, Native Americans, African-Americans, mestizos, and mulattoes in historical context. The course does not count as credit toward the history major.

WOH 1023. The Modern World to 1815 (3). This liberal studies course deals with the origins and development of political, economic, social, and intellectual antecedents of the modern world from the end of the Middle Ages to 1815. Students who have previous college credit in Western civilization courses covering the same general chronological period cannot receive credit for WOH 1023. May not be taken by students with test credit in European history.

WOH 1030. The Modern World Since 1815 (3). This liberal studies course deals with the origins and development of political, economic, social, and intellectual antecedents in the modern world since 1815. Students who have previous college credit in Western civilization courses covering the same general chronological period cannot receive credit for WOH 1030. May not be taken by students with test credit in European history.

***AMH 3472. Evolution of Law, Crime, and Justice in American Society: 1865 to the Present (3).** This course serves as an intermediate level survey of the social and political developments in the fields of crime and law from the end of the Civil War to the present. Its focus is on the changing definitions of criminal behavior, regional patterns of crime, the changing nature of punishment, and Constitutional issues relating to crime.

AMH 3540. Military History of the United States (3). This course is a survey of both the military experiences and issues in American history. The course analyzes war, its economic issues, technological developments, politics, and other factors that have influenced the military aspects of American history.

***AMH 3544. The United States and Vietnam, 1941-1975 (3).** This course examines the involvement of the United States in Vietnam from World War II through the fall of Saigon in 1975 and considers the legacy of this experience for American foreign relations and society.

AMH 3930r. Studies in U.S. History (3). This course includes examination of a special topic related to U.S. history. Topics vary. The course may be repeated as topics vary to a maximum of nine semester hours.

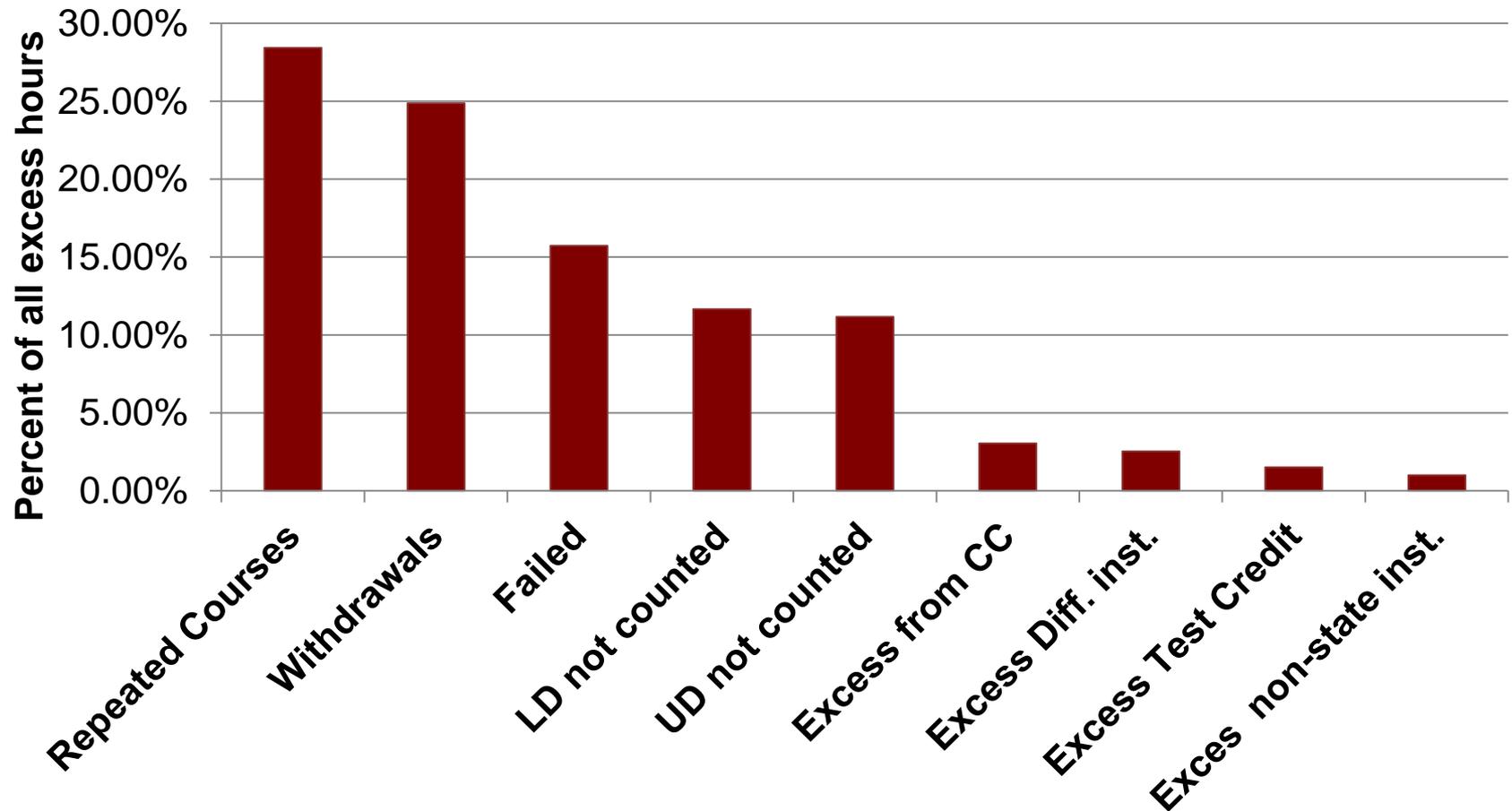
AMH 4110. Colonial America to 1763 (3). This course studies and compares the founding and development of the English colonies in North America.

AMH 4130. Revolutionary America, 1760-1788 (3). This course examines the political, social, and economic history of British America from the end of the Seven Years War to the ratification of the U.S. Constitution. Emphasis is placed on the origins, course, and aftermath of the colonial rebellion that became the American Revolution and led to the founding of the U.S. The course considers the fundamental causes of the Revolution and the many ways in which the former colonies were transformed by the experience.

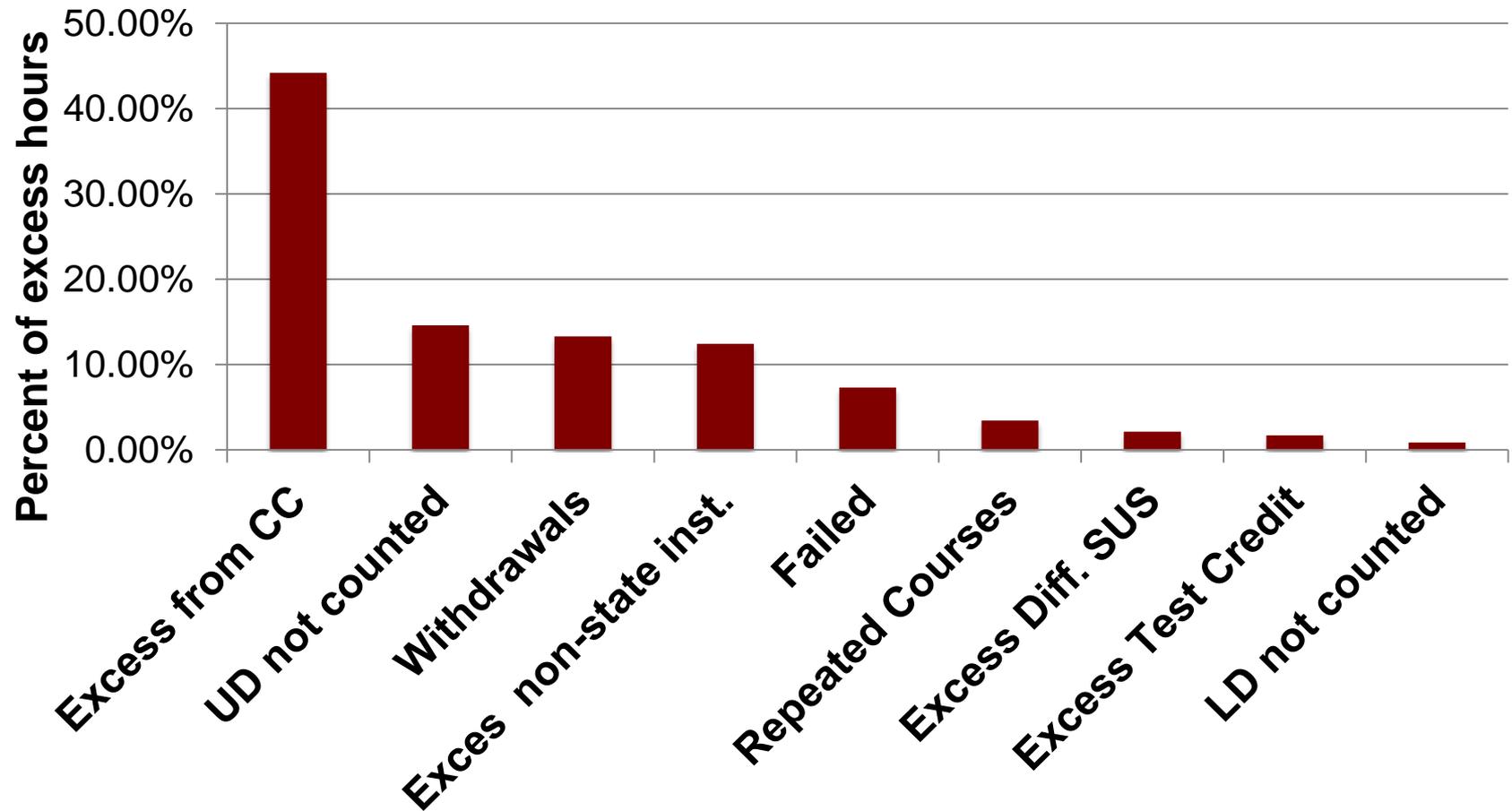
AMH 4172. The Civil War Era (3). This course offers an in-depth study of the twenty years from 1845 to 1865. Emphasis is placed on the coming of the Civil War, the secession crisis, and on both the military and nonmilitary events of the war years.

AMH 4173. Post-Civil War America, 1865-1890 (3). This course analyzes post-Civil War America with emphasis on the black role in American society and the attempt to heal the wounds of the Civil War. Topics include the rise of big business, labor unions, and the last frontier.

Over half of excess hours state-wide for FTIC students are repeats, withdrawal and failures as students struggle in inappropriate courses and/or majors



AA transfer students have taken too many courses while in community college



State University System of Florida Report on 2002-03 baccalaureate graduates, n=13,495 AA transfer

A successful implementation of academic maps required a series of steps to achieve the desired results

Challenge

- Students **could not enroll** in the courses they needed
- Students **lack a clear path** to graduation
- Students continued to take courses that were **not “on map”**

Solution

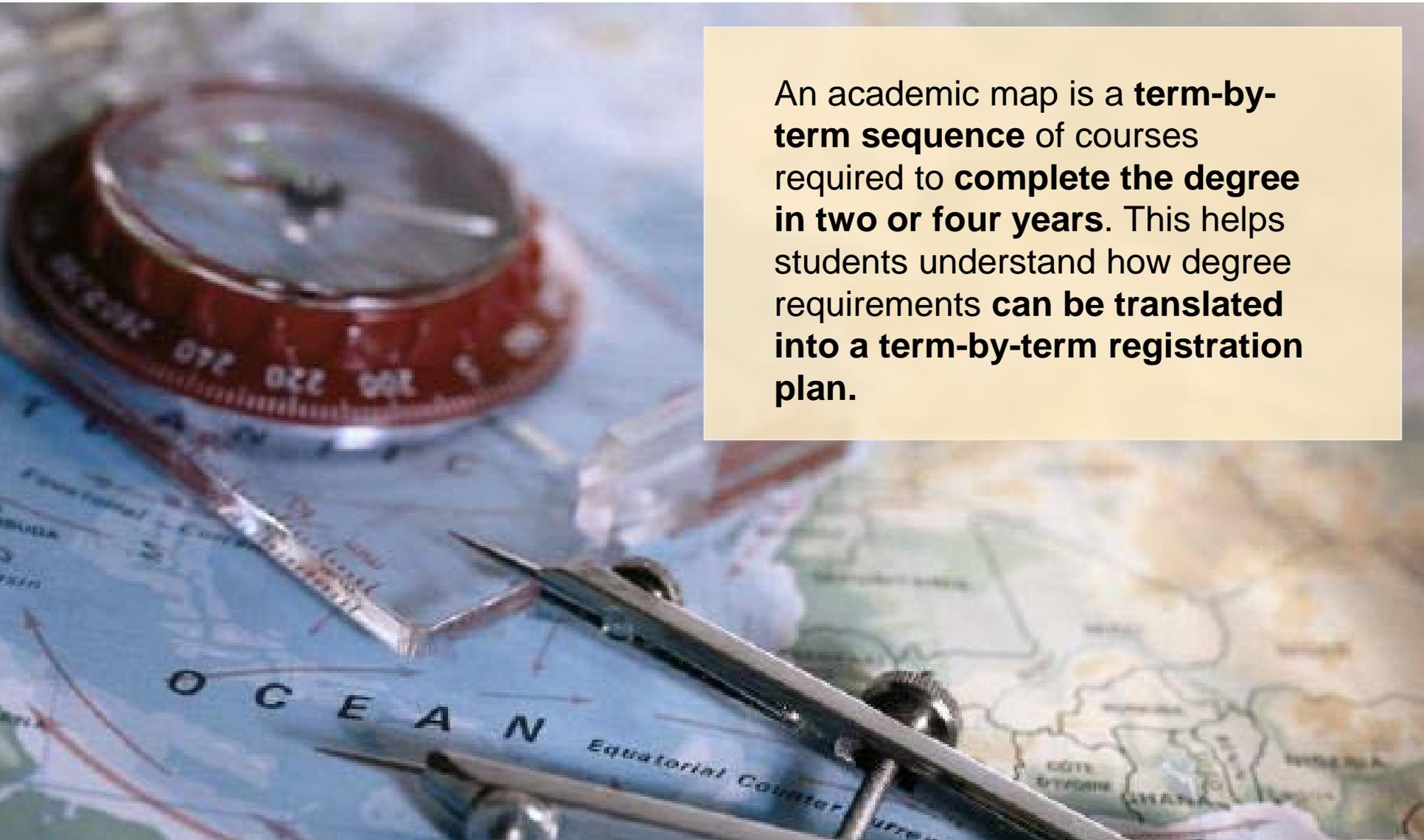
- Built **Demand Analysis** to monitor need and open sections for students
- **Introduced maps** for all majors
- Added **Milestone courses** with hold on class attendance and required students to select **area of interest or major** upon entering

Results

- Small improvement in retention and graduation; **little to no reduction** in excess hours
- Slight improvement in retention and graduation; **no reduction** in excess hours
- **6%** point increase in retention rate and almost **17%** point increase in 4-yr. graduation rate; number of students with >120 hours decreased from **30%** to less than **5%**

Academic Maps

An academic map is a **term-by-term sequence** of courses required to **complete the degree in two or four years**. This helps students understand how degree requirements **can be translated into a term-by-term registration plan**.



Chemistry degree requirements

Requirements for the Chemistry B.S. degree program

General Chemistry	CHM 1045 & 1045L; 1046 & 1046L or CHM 1050, 1050L; 1051, 1051L
Analytical Chemistry	CHM 3120 & 3120L; 4130 & 4130L
Inorganic Chemistry	CHM 4610, 4610L
Organic Chemistry	CHM 2210; 2211, 2211L
Physical Chemistry	CHM 4410, 4410L; 4411, 4411L
General Physics (calculus based)	PHY 2048C; 2049C
Calculus I, II, and III	MAC 2311; 2312; 2313

No required course with a grade below C- can be applied toward any of the degree programs in the Chemistry Department.

Accounting Road Map

(Full time student, 4 years)

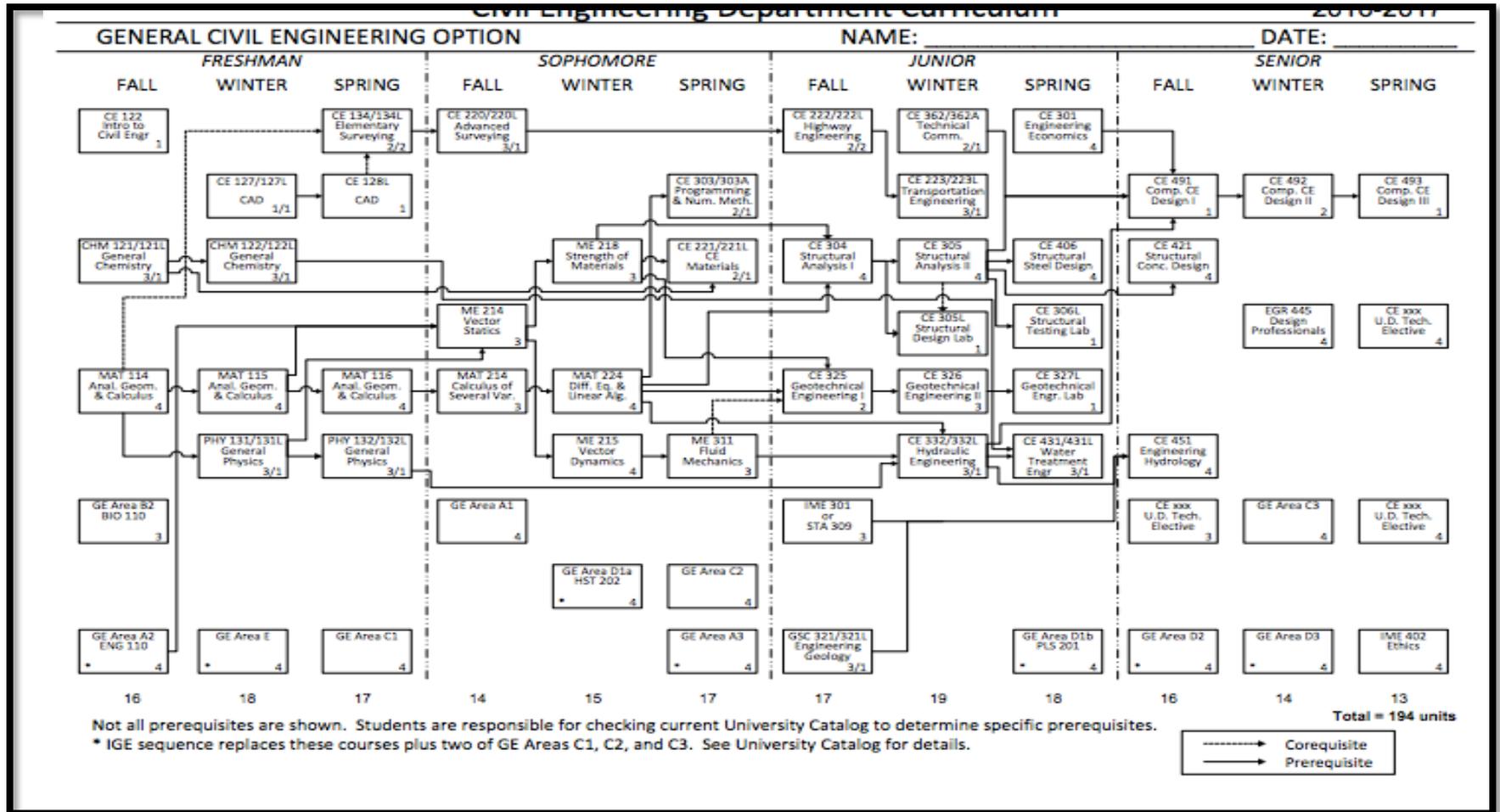
<u>Quarter</u> <u>Year</u>	<u>Fall</u>	<u>Winter</u>	<u>Spring</u>
1 49 units	A-2 MATH 140 (B-4) C-1 CSUB 101 17 units	A-1 B-1 D-3 / Local Government MIS 200A 17 units	A-3 C-5 US History 15 units
2 94 units Junior	C-2, C-3 or C-4 ECON 220 ECON 201 (D-2) 15 units	B-2 ACCT 220 ECON 202 15 units	Acct 221 BA 300 or ECON 380 (GRE) D-1, D-4, or D-5 15 units
3 139 units Senior	ACCT 300 ACCT 303 Upper Core 15 units	ACCT 301 Upper Core BA 374 (Theme 3) 15 units	ACCT 275 ACCT 400 Upper Core 15 units
4 184-189 units	ACCT 360 Upper Core Theme 1 15 units	ACCT 325 or 326 Upper Core GWAR Foreign Language (if necessary) 15-20 units	ACCT 408 BA 490 Theme 2 15 units

Accounting Road Map

Year 1	Fall	Units	Winter	Units	Spring	Units	Comment
	STA 120 Major Support/GE Area B4	4	MAT 125 Major Support	4	EC 201 Major Support	4	<p><i>Personal Computer Proficiency must be demonstrated with CIS 101, Personal Computer Proficiency Test in Word, Excel, Access, and PowerPoint, or an approved college course. If the test is passed, then unrestricted electives are increased by 4 units.</i></p> <p><i>The number of unrestricted elective units depends on whether or not ENG 130, STA 120 or MAT 125, and EC 201 or EC 202 are used for General Education. If any of these courses are used for General Education, unrestricted electives will be increased by four units per course up to the unit maximum of 12.</i></p>
	General Education Any approved course in area A2	4	ENG 130 Major Support/GE Area A3	4	ACC 207/207A Major Core	4/1	
	CIS 101 or Unrestricted Elective Major Support	4	General Education Any approved course in area B1 or B2 and B3	4	FRL 201 Major Core	4	
			General Education Any approved course in area C1	4	General Education Any approved course in area A1	4	
	<i>Only 12 units recommended in first quarter</i>						
Total Units	12	Total Units	16	Total Units	17		
					Total Units for Year	45	

Year 2	Fall	Units	Winter	Units	Spring	Units	Comment
	ACC 208/208A Major Core	4/1	MHR 301 Major Core	4	ACC 304 Major Core	4	<p><i>The following courses must be completed with a grade of C (2.0) or better before taking ACC 304: ACC 207/207A, ACC 208/208A, EC 201, EC 202, ENG 103 or ENG 104 or ENG 107 or ENG 109 or ENG 110 or (IGE 120, IGE 121, and IGE 122), ENG 130, FRL 201, MAT 125, and personal computer proficiency.</i></p>
	IBM 301 Major Core	4	FRL 300 Major Core	3	CIS 310 Major Core	4	
	EC 202 Major Support/GE Area D2	4	General Education Any approved course in area B1 or B2 and B3	4	FRL 301 Major Core	3	
	General Education Any approved course in area C2	4	General Education Any approved course in area D1	4	General Education Any approved course in area D3	4	
Total Units	17	Total Units	15	Total Units	15		
					Total Units for Year	47	

An Academic Map for Civil Engineering



Academic Road Map for Civil Engineering

	Fall	Units	Winter	Units	Spring	Units	Comment
Year 1	CE 122 Major Core	1	Area E Any approved course in Area E	4	CE 134/134L Major Core	4	<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses.</i> <i>MAT 114, PHY 131/131L and PHY 132L satisfy both major and general education requirements</i>
	CHM 121 Major Support	3	CHM 122/122L Major Support	4	MAT 116 Major Core	4	
	CHM 121L GE Area B3	1	MAT 115 Major Core	4	PHY 132/132L Major Support	4	
	MAT 114 GE Area B4	4	PHY 131/131L GE Area B1, B3	4	GE Area C1 Any approved course in area C1	4	
	ENG 110 GE Area A2	4					
	GE Area B2 Any approved course in area B2	3	CE 127/127L Major Core	2	CE 128L Major Core	1	
	Total Units	16	Total Units	18	Total Units	17	
Total Units for Year						51	
Year 2	CE 220/220L Major Core	4	ME 218 Major Core	3	CE 221/221L Major Core	3	<i>Upper division CE courses must be approved in advance by your advisor.</i> <i>One course must be completed in each of the GE areas A2-3, B1-3, C1-3, D3, and E.</i>
	ME 214 Major Core	3	ME 215 Major Core	4	CE 303/303A Major Core	3	
	MAT 214 Major Core	3	MAT 224 Major Core	4	GE Area A3 Any approved course in area A3	4	
	GE Area A1 Any approved course in GE Area A1	4	GE Area D1a Any approved course in area D1a	4	ME 311 Major Core	3	

State Fair CC: accounting

Degree Requirements

*Courses to complete with a grade of C or higher**

ACCT 109*	Applied Accounting Procedures	3
CAPP 125*	Microcomputer Applications	3
ENGL 101	English Composition I	3
MATH 101*	Business Math (or)	
MATH 112*	Intermediate Algebra	3
BADM 101	Introduction to Business	3
OADM 121*	Calculators	1
ACCT 101*	Principles of Financial Accounting	3
ENGL 110	Business Communications	3
CAPP 166*	Excel	3
BADM 107	Personal Finance	3
HIST 101	U.S. History Before 1877 (or)	
HIST 102	U.S. History Since 1877 (or)	
POLS 101	American/National Government	3
<i>Wellness Course**</i>		1
ACCT 102*	Managerial Accounting	3

ACCT 203*	Intermediate Financial Accounting I	3
ACCT 132*	Business Taxation	3
ECON 101	Principles of Macroeconomics	3
BADM 103	Legal Environment of Business	3
SS 120	Employment Strategies	1
ACCT 220*	Current Topics in Accounting	3
ACCT 137*	Introduction to Federal Taxation	3
ACCT 125*	Computerized Accounting Applications	3
BSMT 125	Human Relations (or)	
SPTH 101	Public Speaking	3
ACCT 175*	Accounting Internship	4

Degree Total 64

*Wellness Course*** – Select one course from the following - HLTH 101, WELL 116, WELL 117, WELL 118, WELL 119, WELL 121 (or) WELL 122

Lincoln University: accounting

SUMMARY CHECK FOR ACCOUNTING MAJORS (effective F13 – 69 hrs major + 9 hrs gen ed)

This document is to be used as a guide only. Consult with your advisor or the records office if you have any questions.

Student _____

ID # _____

<u>Course Number</u>	<u>Course Title</u>	<u>Semester</u>	<u>Grade</u>
ACC 246	Principles of Accounting I (<i>prereq MAT 111</i>)	_____	_____
ACC 247	Principles of Accounting II (<i>prereq ACC 246</i>)	_____	_____
ACC 342	Cost Management I (<i>prereq MAT 112/113, ACC 247 & BED 208</i>)	_____	_____
ACC 343	Cost Management II (<i>prereq MAT 112/113, ACC 342 & BED 208</i>)	_____	_____
ACC 345	Individual Income Tax (<i>prereq ACC 247</i>)	_____	_____
ACC 346	Intermediate Accounting I (<i>prereq ACC 247 & BED 208</i>)	_____	_____
ACC 347	Intermediate Accounting II (<i>prereq ACC 346 & BED 208</i>)	_____	_____
ACC 348	Computerized Accounting (<i>prereq ACC 246 & BED 208</i>)	_____	_____
ACC 441	Governmental Accounting (<i>prereq ACC 247</i>)	_____	_____
ACC 446	Intermediate Accounting III (<i>prereq ACC 347 & BED 208</i>)	_____	_____
ACC 448	Accounting Information Systems (<i>prereq ACC 342 & 346</i>)	_____	_____
ACC 449	Auditing (<i>prereq ACC 347 or concurrent enrollment</i>)	_____	_____
BAD 101	Introduction to Business	_____	_____
BAD 200	Introduction to Business Statistics (<i>prereq Mat 112 or higher</i>)	_____	_____
BAD 215	Global Business (gen ed) (<i>prereq soph</i>)	_____	_____
BAD 275	Business Law I (<i>prereq soph</i>)	_____	_____
BAD 310	Principles of Management (<i>prereq BAD 101, ENG 101 & 102</i>)	_____	_____
BAD 350	Fund. of Financial Mngt (<i>prereq ACC 247, BAD 200, ECO 202</i>)	_____	_____

Missouri State University: accounting

General Education	3
<u>PLS 101</u> American Democracy and Citizenship	3
<u>GEP 101</u> First-Year Foundations	2
<u>ENG 110</u> Writing I	3
<u>PSY 121</u> Introductory Psychology	3
MTH 135 or above (not 145)	3
Total hours	17

<u>CIS 200</u> Critical and Creative Thinking Using Information Technology	3
<u>COM 115</u> Fundamentals of Public Speaking	3
<u>HST 121</u> or <u>HST 122</u>	3
<u>ECO 155</u> Principles of Macroeconomics	3
General Education course	3
General Education course	4
Total hours	18

Truman State University: accounting

FALL-semester 1

Truman Week

Math Class (as placed)

ENG 190 Writing or COMM 170 Pub Spkg

BSAD 157 Information Technology (or sem. 2)

Choose 3-6 hours from:

Foreign Language

Liberal Studies Courses

Military Science

SPRING-semester 2

Math or Statistics

COMM 170 Pub Spkg or ENG 190 Writing

BSAD 157 Info Technology (or sem. 1)

Choose 5-10 hours from:

Foreign Language

Liberal Studies Courses

Lifetime Health or

Military Science

FALL-semester 3

Math or Statistics (as needed)

ACCT 220 Intro. Financial Accounting

BSAD 234 Legal Env. Business (or sem. 4)

Principles of Economics (ECON 200/201/205)

Choose 3-6 hours from:

Foreign Language (or yr. 1)

Liberal Studies Courses

SPRING-semester 4

Math or Statistics (as needed)

ACCT 221 Intro. Management Accounting

BSAD 234 Legal Env. Business (or sem. 3)

Principles of Economics (as needed)

Missouri Statute Course

Choose 3-6 hours from:

Foreign Language (or yr. 1)

Liberal Studies Courses

East Central CC: accounting

FS 1000/ FS 1001	Campus Orientation/ Foundation Seminar ^{CA}	1	AC 1043	Managerial Accounting	3
EN 1223/ EN 1233	English Comp I or Honors English Comp I ^{CA}	3	AC 2043	Intermediate Accounting I ^F	3
AC 1003	Financial Accounting I ^{CA}	3	AC 2053	Tax Accounting ^F	3
MT 1023	Business Mathematics (or higher) ^{CA}	3	AC 1033	Accounting Tech/Quickbooks	3
BU 1003	Introduction to Business ^{CA}	3	EC 2103/ EC 2203	Principles of Microeconomics or Principles of Macroeconomics	3
CS 1013/ CS 1003	Survey of Computers & Information Systems (preferred) or Microcomputer Applications ^{CA}	3		Total Credit Hours	15
	Total Hours	16		SPRING SEMESTER	
	SPRING SEMESTER		BU 2033	Legal Environment of Business *	3
AC 1022	Payroll Accounting ^{CA}	2	AC 2013	Computer Assisted Accounting	3
AC 1023	Financial Accounting II ^{CA}	3	AC 2073	Cost Accounting ^S	3
BU 1213	Business Communication ^{CA}	3		Science Requirement (without Lab)	3
EN 1403	Technical Writing ^{CA}	3	BU 2213	Program Capstone-Business ^S	3
HI 1000/ PS 1000	Constitutions Study Module ^{CA}	0		Total Hours	15
	History or Political Science Requirement ^{CA}	3			
	Total Hours	14			

Sinclair Community College presents courses as defaults in their registration system

MAP (My Academic Plan)

My Academic Plan for Tanya Sturm

I have worked with an Academic/Faculty advisor at Sinclair to create My Academic Plan (MAP) for achieving my educational goals at Sinclair. I realize that by developing and agreeing to this plan, I am acknowledging my responsibility to follow it and thereby will achieve my academic goals without delay or loss of credits. I understand that deviation from this plan may have negative academic or financial impacts on reaching my stated goals and may void the Pledge to Students made to me by Sinclair. I will contact my Academic Advisor or Counselor if I have any questions or need to make modifications to MAP.

12/WI	12/SP	12/SU
PSY 121 PSY 121 - General Psychology I PLAN TO OFFER: FALL WINTER First of a two-course sequence covering: history of psychology, research methods, physiology of behavior, sensation and perception, learning, memory, states of consciousness, and personality theories. Many Sinclair Community	SCC 101 SCC 101 - Student Success Experience PLAN TO OFFER: FALL WINTER SPRING SUMMER This course is designed to help new students make a successful transition to Sinclair Community College. Students will learn and apply strategies required for survival in	MAT 101 MAT 101 - Elementary Algebra PLAN TO OFFER: FALL WINTER SPRING Brief review of pre-algebra skills; operations with polynomials and rational expressions; simplifying algebraic expressions; solving first degree equations and inequalities and second degree equations by factoring

Any questions should be directed to: Tanya Sturm
512-3700
tanya.sturm@sinclair.edu



www.sinclair.edu

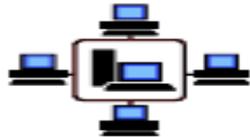
Students meet with advisors to develop personalized degree maps

Map is loaded into the registration system and courses are presented to student as default courses

Students can opt out and register for other courses, with a warning

Chipola College has Maps by major for students intending to transfer

ACADEMIC PLAN: Associate In Arts Degree



Information Technology Transfer Institution: Florida State University

Code
1047

Program Length
60 credits

2013-2014

For more Information
Contact:

Student Affairs
Chipola College
(850) 718-2266



Entrance Requirements

FSU WILL DENY ADMISSION TO ANY STUDENT WHO HAS NOT SATISFIED THE STATE FOREIGN LANGUAGE REQUIREMENT.

FSU requires competency in oral communications for graduation. If students took a speech course in high school or were members of a debate team, they may exempt this requirement during the FSU admissions process. If not, students should take SPC 2608 at Chipola to satisfy this requirement.

All new main campus undergraduate students who enter the School of Information Studies are required to provide their own laptop computer and appropriate software. Specific information may be found on the FSU website at: <http://sits.fsu.edu/students/>.

An additional prerequisite for this program is PHI 2630 (or a general ethics class); it is not offered at Chipola.

FRESHMAN YEAR

1st Semester		Sem. Hrs.	2nd Semester		Sem. Hrs.
ENC 1101 ¹	Communication Skills I	3	ENC 1102 ¹	Communication Skills II	3
CGS 1050	Intro to Microcomputer Use	3	STA 2023 ^{2,4}	Intro to Statistics	3
MAC 1140 ³	Precalculus Algebra	3	PSY 2012 ⁵	General Psychology	3
COP 1822 ⁵	Intro to Web Authoring & Design	3	COP 1700 ⁵	Intro to Database Management	3
XXX XXXX ⁶	ELECTIVE	2-3	CIS 1000 ⁶	Intro to Computing Systems	3
SLS 1101	Orientation	1			
TOTAL		15-16	TOTAL		15

SOPHOMORE YEAR

1st Semester		Sem. Hrs.	2nd Semester		Sem. Hrs.
XXX XXXX ¹	GORDON RULE WRITING	3	XXX XXXX ¹	GORDON RULE WRITING	3
COP 2000 ²	Intro to Computer Programming	3	SPC 2608	Effective Public Speaking	3
ECO 2013 ³	Macroeconomics	3	XXX XXXX	NATURAL SCIENCE	3
XXX XXXX	GENERAL ED. ELECTIVE	3	COP 2800 ⁵	JAVA Programming	3
XXX XXXX	NATURAL SCIENCE	3	XXX XXXX	HUMANITIES	3
TOTAL		15	TOTAL		15

¹ Twelve (12) hours of Gordon Rule Writing are required. In addition to ENC 1101 and ENC 1102, choose from the following courses to complete the 12 hour requirement: AML 2010, AML 2020, ENC 2210, ENL 2012, ENL 2022, HUM 2216, HUM 2233, SPT 2521, or ENC 1133.

² Must be completed with grade of C⁺ or higher.

³ FSU requires an international/diversity course for graduation. The Chipola courses which should meet the diversity requirement at FSU include AMH 2091/2092, ASH 1044, EDF 2085, GEA 2001/2002, REL 2300, SPT 2521, and SYG 1010. It is strongly recommended that one of these courses be completed before earning the AA degree.

⁴ If you have completed STA 2122, you have met this requirement. You cannot receive credit for both STA 2122 and STA 2023.

⁵ Select another department approved course if this course is not available.

At CUNY Lehman College, entering students are required to choose from pre-built course schedules



During orientation, new students select from among 25-30 pre-made course schedules



SCHEDULE EIGHTEEN

ENG110 **English Composition I**
M,W 12:30 – 1:45

PSY166 **General Psychology**
T,TH 12:30 – 1:45

ANT212 **Ancient Cultures**
M,W 11:00 – 12:15

ENG234 **Women in Literature**
T,TH 11:00 – 12:15

FYI001 **Freshman Seminar**
M 9:30 – 10:20

Class times fit together and ensure that all new students attempt:

- Fifteen credits
- English Comp I
- Freshman Seminar
- Three general education areas*

(* students can make approved substitutions due to prior credit or to explore majors)

Pre-Professional Options

Special schedules are created and targeted to students preparing for pre-professional majors

Accounting
Nursing
Pre-med
Teacher Education

Second Term Schedules Prepare for Major

Second term schedules feature English Comp II and the introductory courses for popular majors

Psychology
Sociology
Performing Arts
Business Admin

Students register during orientation for a pre-made schedule that satisfies a number of GE requirements

Students continue to enroll in blocks of courses together for the second term

Students can opt out and register for other courses, to explore majors

Florida International University has developed a comprehensive system for integrating maps into their student advising system

Graduation Success Initiative

The Graduation Success Initiative (GSI) helps students to:

Explore
Find the right major



Focus
Stay on track



Graduate
Finish on time



MyMajorMatch (interest inventory)

Students can take an on-line assessment to gauge their interest and skill across areas

MyMajor (academic maps)

Provide admissions criteria, course sequence, and career opportunities for each major

Differentiated maps for two-year transfer vs. four-year students

My_e_advisor (registration flag)

Provides immediate feedback to students and advisors on progress

Alerts students and advisors if students are off-track

Florida International University lists milestone courses with critical grades

Spring Term 2013

Term Hours: 14
Cum GPA: 2.000

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Common Prerequisites	CHM 1046	Gen Chemistry II	3.00	B	 <p>Note Critical Grade Based on Predictive Analytics</p>
Common Prerequisites	CHM 1046L	Gen Chem Lab II	1.00	B	
UCC English Composition	ENC 1102	Writing and Rhetoric II	3.00		
Common Prerequisites	MAC 2312	Calculus II	4.00	B	Also satisfies UCC Second Quantitative Reasoning course. (1) See endnotes
UCC Social Inquiry - Foundations of Social Inquiry			3.00		(1) See endnotes

Academic Map in Chemistry for a transfer student

Fall Term 2013

Term Hours: 15

Complete PHY2048/2053 or CHM2210 if not completed prior to transferring to FIU.
Both are required.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
CHEMISTRY LOWER DIVISION PREREQUISITES			4.00	C	PHY2048 or PHY2053 or CHM2210 are required
CHEMISTRY LOWER DIVISION PREREQUISITES			1.00	C	PHY2048 or CHM2210 is recommended
Intro to Analytical Chemistry	CHM 3120	Intro Analyt Chem	3.00	B	
Intro to Analytical Chemistry	CHM 3120L	Intr Analyt Chm Lab	1.00	C	
3000-4000 Level Electives			3.00		Global Learning Recommended
3000-4000 Level Electives			3.00		Elective Outside of Major

Note Critical Grade Based on Predictive Analytics

Academic Maps: Four essential components—the narrative, sample schedule, milestones, and employment opportunities

MY GUIDED PATHWAY TO SUCCESS

The narrative explains the **use of academic maps** and any specific information about **degree requirements**, including admissions requirements.

The sample schedule outlines **which courses** should be taken in **which specific term** in order to **satisfy all requirements**.

Major: _____

Requirements for Major

Description of Major

Narrative

Course Number	Course Title	Credit Hours	Area	Recommended Minimum Grade	Milestones & Notes
ENC 101	English Composition	3			Milestone: Must complete this course this term
MAT 105	College Algebra	3		B	
HIS 201	American History	3			
BIO 105	General Biology	3			
BIO 105L	Biology	1			
Total Hours		16			

Links to Employment Information

Employment Information
 National Association of Colleges and Employers <http://naceweb.org/salary-resources/index.aspx>
 Occupational Outlook Handbook <http://www.bls.gov/ooah/>
 Build your Future <http://www.onetonline.org/>

The **milestones** identify **critical courses** for timely progress and the last semester in which they can be completed for **on-time graduation**. **Critical grades for Milestone courses may/should be included.**

A student's grade in their first biology course is predictive of success in biology but not for other majors

GRADE	A	B	C	D	F	W
% graduating in biology	68.4%	49.3%	27.5%	9.8%	7.0%	17.1%
% graduating with any major	87.8%	86.1%	74.8%	78.0%	40.7%	65.7%

Accelerated Degrees with Block Schedules for Meta-Majors



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<http://www.cuny.edu/academics/programs/notable/asap.html>

Block Schedule for Business Meta-Major

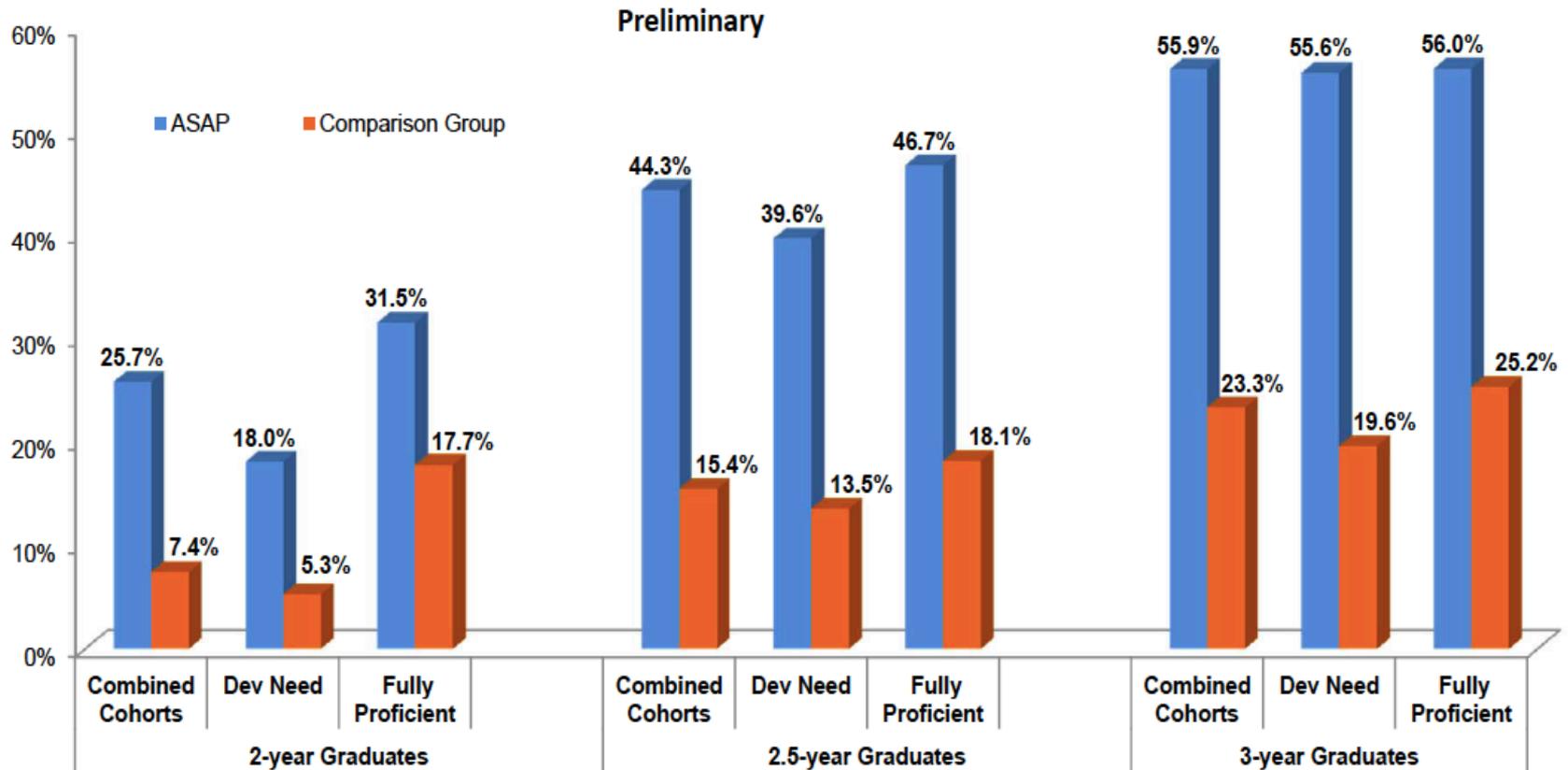
ASAP Block Program Sample

Business Administration (A.S.)

HOURS	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8:00-8:50 AM			ENGLISH COMPOSITION		ENGLISH COMPOSITION		
9:00-9:50 AM		BUSINESS COMMUNICATION	ENGLISH COMPOSITION	BUSINESS COMMUNICATION	ENGLISH COMPOSITION	INTRODUCTION TO HEALTH	
10:00-10:50 AM		MARKETING	COMPUTER FUNDAMENTALS	MARKETING	COMPUTER FUNDAMENTALS	INTRODUCTION TO HEALTH	
11:00-11:50 AM			COMPUTER FUNDAMENTALS		COMPUTER FUNDAMENTALS	ASAP SEMINAR	
12:00-12:50 PM		REVIEW SESSION	REVIEW SESSION	REVIEW SESSION		ASAP SEMINAR	
1:00-1:50 PM		REVIEW SESSION	REVIEW SESSION	REVIEW SESSION			

ASAP Program Results

Chart 1: Graduation Rates for Combined ASAP and Comparison Group Cohorts:
By Developmental Need at Time of Entry¹



Business Meta-Major Map

Change Required stop is placed on the student's registration.

SAMPLE SCHEDULE*

TERM 1	Hrs.	Area
Required English course	3	
Algebra or other Pre-calculus	3	
Microeconomics	3	
General Education	3	
Elective	3	
Total Hours	15	

TERM 2	Hrs.	Area
Second English requirement	3	
Calculus	3	
Macroeconomics	3	
Elective	3	
General Education	3	
Total Hours	15	

TERM 3	Hrs.	Area
Statistics	3	
Financial Accounting/Principles I	3	
Microcomputer Applications	3	

MILESTONES

TERM 1
Complete required English course
Algebra or other Pre-calculus
GPA of 2.7 or higher

TERM 2
Complete second English course
Complete calculus
GPA of 2.8 or higher



TERM 3
Financial Accounting
GPA of 2.9 or higher

Public Safety/Criminology Meta-Major Map

SAMPLE SCHEDULE*

TERM 1	Hrs.	Area
Required English course	3	
Mathematics course	3	
General Education (Science)	4	
Elective (Minor)	3	
Seminar	1	
Total Hours		

TERM 2	Hrs.	Area
Second English requirement	3	
Statistics	3	
Computer Science	3	
Elective (Minor)	3	
General Education	3	
Total Hours	15	

TERM 3	Hrs.	Area
Criminology course	3	
Criminology course	3	
Elective (Minor)	3	
General Education	3	
General Education	3	
Total Hours	15	

TERM 4	Hrs.	Area
Criminology course	3	
Criminology course	3	
General Education	3	
General education	3	
Elective (Minor)	3	
Total Hours	15	

MILESTONES

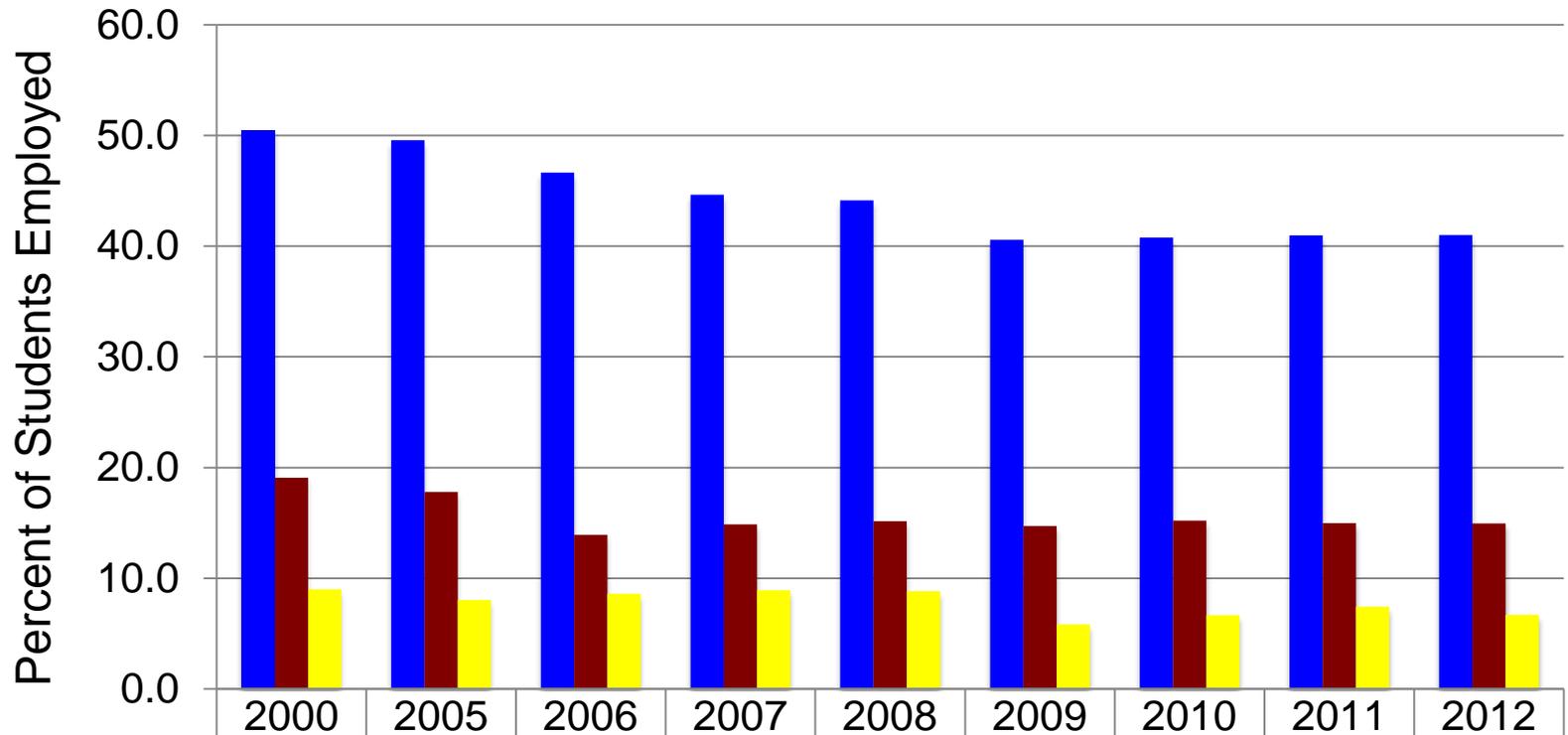
TERM 1
Complete required English course

TERM 2
Complete second English course
Complete Mathematics requirements

TERM 3
Complete Elective for Minor
Complete Statistics

TERM 4
Complete at least two Criminology courses

The majority of full-time* students at public 4-year institutions are not employed while attending school**

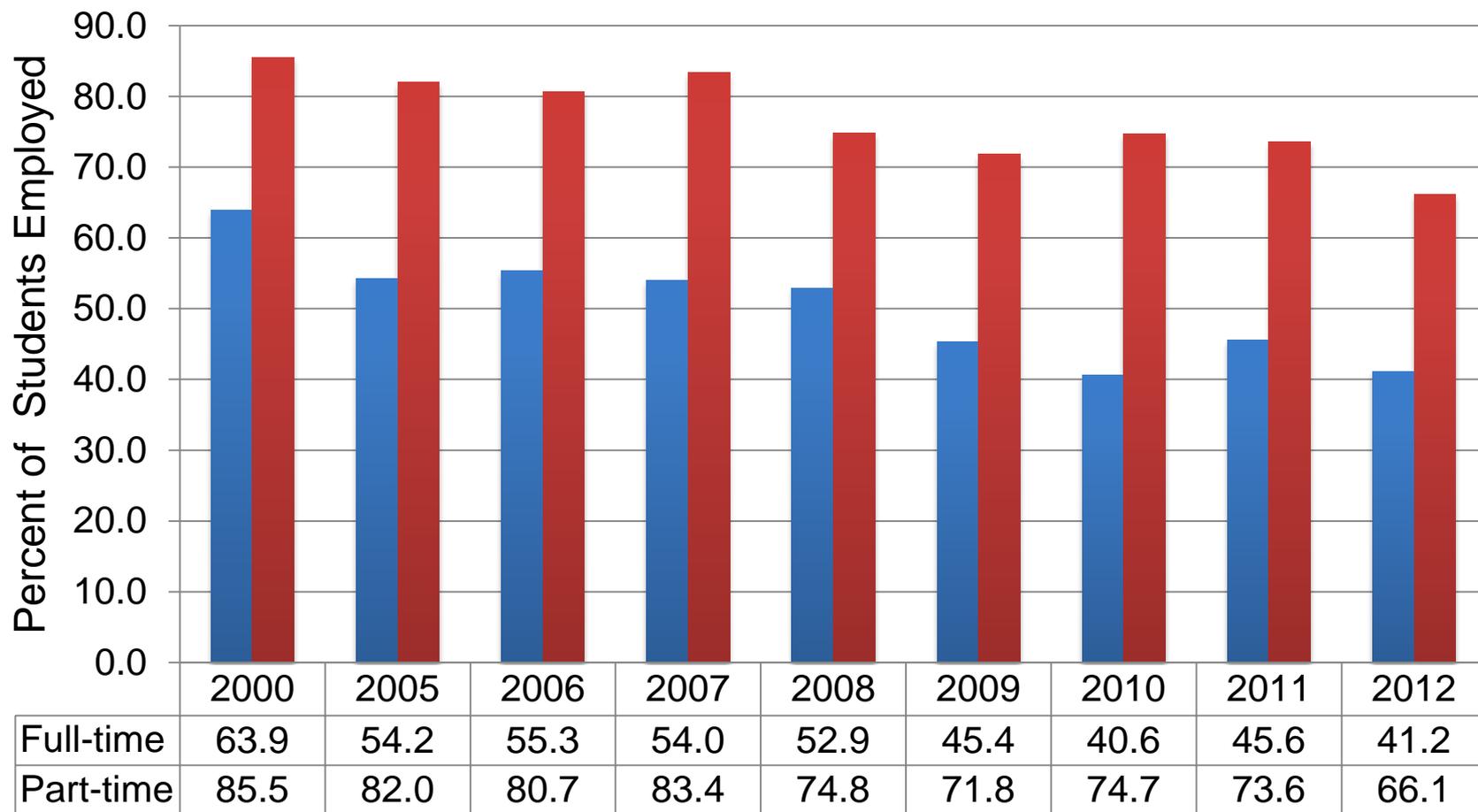


	2000	2005	2006	2007	2008	2009	2010	2011	2012
% Employed	50.5	49.6	46.6	44.7	44.1	40.6	40.8	41.0	41.0
% <20 hrs/week	19.1	17.8	13.9	14.9	15.1	14.7	15.2	15.0	14.9
>35 hrs/week	8.99	8.0	8.6	8.9	8.8	5.8	6.6	7.4	6.7

*77.2% of students are full-time: Table 303.50, Digest Educational Statistics 2013

**Table 503.20, Digest of Education Statistics 2013

The percentage of community college students employed has decreased over time*



Source: Table 503.20 Digest of Educational Statistics 2013

39.3% of community college students are full-time: Table 303.50 Digest of Education Statistics 2013 ⁵⁰

Hours and weeks worked for students enrolled in High School, College, and Graduate School: 2011

Population	High school		College		Graduate or professional school	
	Number	Percent	Number	Percent	Number	Percent
Total	11,149,446		19,730,695		4,127,319	
Did not work	7,934,795	71.2	5,595,655	28.4	726,475	17.6
Worked less than full-time, year-round. . . .	3,068,911	27.5	10,276,460	52.1	1,504,510	36.5
13 weeks or less	1,480,619	13.3	2,667,249	13.5	280,087	6.8
1 to 10 hours	508,828	34.4	541,600	20.3	50,080	17.9
11 to 20 hours	535,855	36.2	771,693	28.9	65,634	23.4
Over 20 hours	435,936	29.4	1,353,956	50.8	164,373	58.7
14 to 26 weeks	525,155	4.7	1,748,397	8.9	197,127	4.8
1 to 10 hours	141,453	26.9	251,304	14.4	23,819	12.1
11 to 20 hours	247,264	47.1	592,286	33.9	57,765	29.3
Over 20 hours	136,438	26.0	904,807	51.8	115,543	58.6
27 to 49 weeks	1,063,137	9.5	5,860,814	29.7	1,027,296	24.9
1 to 10 hours	272,489	25.6	640,277	10.9	82,377	8.0
11 to 20 hours	534,501	50.3	2,265,686	38.7	329,928	32.1
Over 20 hours	256,147	24.1	2,954,851	50.4	614,991	59.9
Worked full-time, year-round.	145,740	1.3	3,858,580	19.6	1,896,334	45.9

Source: 2011 American Community Survey.

Four Issues in Order for Academic Maps to be Successful

1. The Academic Maps: term by term list of courses with critical courses or actions that **MUST BE** completed in the listed term.
2. Academic Policies.
3. Advising Policies.
4. Communication Policies.

The Process

- Academic maps begin with the requirements established by the faculty and published in the institution catalog or bulletin.
- The process does not make any changes to the curriculum.
- Requirements are reformatted into a term-by-term sequence of courses required to complete the degree in two or four years.
- **The faculty set the policy on number of repeats for milestone courses before a change in major is required.**
- The faculty have final approval of all maps.

Key academic policies

- Require early declaration of interest area (a meta-major) or major.
- Require every student without a major to attend a “choosing a major” workshop and have a major selected by 30 hours.
- Establish Milestones for each term (key courses, factors, or events that must be completed by a specific time in order to stay on track). These courses **must be** offered when needed. Monitor Milestones and require a meeting with an advisor if not completed (**=Intrusive Advising**). **Change majors if missed a second time.**
- Rationalize general education requirements.

Key advising policies

- Assist students with choosing a major through workshops, the Career Center and web resources, e.g., <http://www.bls.gov/ooh/> and <http://www.onetonline.org/>.
- Monitor student registration and grades for milestone courses.
- Every student “off-map” **must be mandated** to meet with an advisor in person (or electronically).
- Students must change majors if they are “off-map” two consecutive terms.

Key communication policies

- Earning a degree is a two of four year process.
- Maps must be part of every communication with students, staff, faculty and family.
- They must be easy to find and easy to understand.
- Maps must be integrated into every aspect of the academic experience.
- Place maps together to allow students to browse and compare.

Maps benefit students

- Students save time and money.
- They avoid unnecessary courses.
- They reduce time to degree.
- They always know where they are and where they are going.

Providing students with a clear path to graduation reduces excess hours, significantly reduces costs, and improves time to graduation

Year	Students with Excess Hours	4-year Graduation Rate
2000	7,382	44.2%
2006	3,011	53.2%
2009	1,540	61.2%

All students benefit from Academic Maps and Intrusive Advising

Students	1994 cohort (6-yr rate)	2007 cohort (6-yr rate)
All	60.7%	79.6%
African Americans	56.00%	78.6%
Hispanic	50.8%	79.2%

Source: College Navigator:<http://nces.ed.gov/collegenavigator/?q=florida+state+university&s=all&id=134097#retgrad>; for 2007 cohort IPEDS data center for 1994 cohort

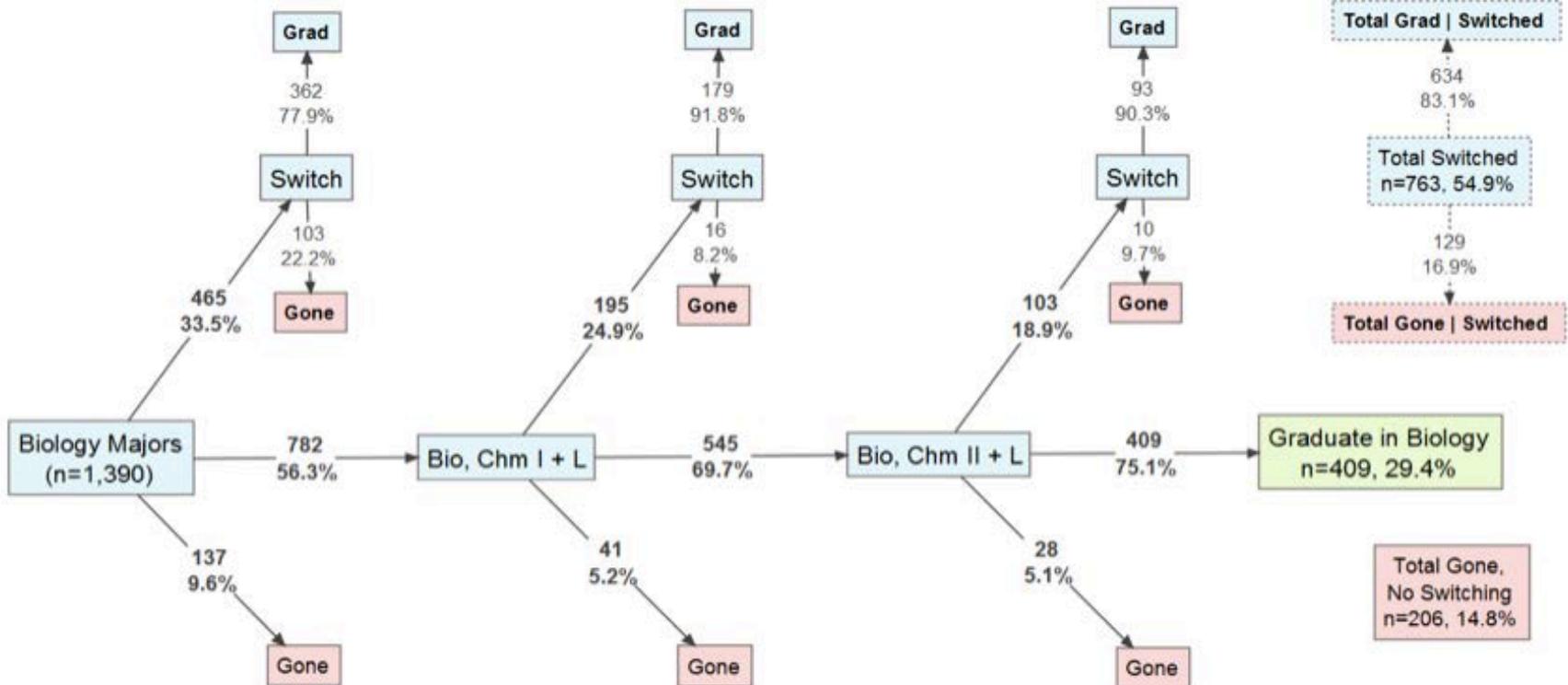
Maps benefit institutions

- Departments always know the numbers of majors.
- Departments know the courses they will need in the future as well as the number of seats.
- Classrooms can be optimally scheduled.
- Faculty can plan for the future.
- Advisors can be more effectively utilized.

Milestone Courses by Major and by term

Major	Lower-Division Students	Term 1	Term 2	Term 3
Accounting	588	Algebra	Calculus	Statistics
Biology	1307	Algebra	Chemistry	Statistics
Chemistry	188	Algebra	Calculus	Finite Math
Criminology	405	Algebra	Mathematics	Statistics
Dietetics	617	Algebra	-----	Statistics
Economics	93	Algebra	Statistics	Trigonometry
Psychology	637	Algebra	Statistics	Mathematics

What happens to biology majors over time



Milestone Courses by Major and by term

Major	Lower-Division Students	Term 1	Term 2	Term 3
Accounting	588	Algebra	Calculus	Statistics
Biology	1307	Algebra/Calculus	Chemistry (n=782)	Statistics
Chemistry	188	Algebra	Calculus	Finite Math
Criminology	405	Algebra	Mathematics	Statistics
Dietetics	617	Algebra	-----	Statistics
Economics	93	Algebra	Statistics	Trigonometry
Psychology	637	Algebra	Statistics	Mathematics

Discussion of Maps

- Are the degree requirements for all degrees clear?
- What are your challenges?
- Do the maps encourage students to earn 30 credits a year?
- Could someone outside of the institution understand the requirements?
- Are courses named in addition to any codes used by the institution?
- Does the map or pathway include an explanation on how to use the map?
- Are links to possible jobs for this major included?
- Are English and math in the first term?
- Are critical courses identified and explained?
- Are the General Education requirements explained and integrated into the maps?
- Do the maps allow a student to graduate in four years for a First Time in College student and two years for a transfer student?
- What is the faculty policy on course repeats?
- What is your pattern of excess hours?
- Do certain courses contribute disproportionately to excess hours and time?