




2+2 and Transfer of Credit Issues

Articulation Coordinating Committee


May 27, 2015



FLORIDA DEPARTMENT OF
EDUCATION
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Exceptions to the 2+2 Guarantee and Transfer of Credit Under the SCNS

- Page 114 of ACC Meeting Packet
- 21 Survey Responses
 - 15 FCS Respondents
 - 6 SUS Respondents (UWF had two respondents)

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General Education Core Course Transfer

Add to the Articulation Rule the following language:
 Proposed 6A-10.024(3)(b): FTIC students who have not completed a general education program or associate in arts degree prior to fall 2015 must meet the general education core requirement pursuant to Rule 6A-14.0303, F.A.C. Students who transfer into a Florida College System institution or state university shall be required to meet the above general education core requirements if the students were classified as first-time-in-college in Fall Term 2015 and thereafter. Any course identified as a general education core course at a Florida College System institution or state university shall be accepted as meeting general education core requirements at all institutions.

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General Education Core Course Transfer

	Agree	Disagree
FCS	11	4
SUS	6	0

Comments (Summarized)

Difficult to manage guaranteed acceptance of "additional" core courses identified by institutions

Dual enrollment students: We would prefer a two-year "grandfathering" period where these students remain subject to catalog requirements under which they began their enrollment.

Does the proposed language mean that a student who is FTIC anywhere (out of state, private, etc.) fall 2015 or thereafter would be required to complete the core requirement?

Institutions should offer exceptions to readmits to complete of "old" GE vs. "new" GE requirements when it is in the best interest of the student to do so.

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Prior Student Misconduct

Add to the Articulation Rule the following language:
 Proposed 6A-10.024(4): The provisions in subsection (3) [which guarantees AA student transfer] above are subject to institution discretion for instances of prior student misconduct. If determined to be in the best interest of the postsecondary institution to deny admission or enrollment to an applicant because of the applicant's past misconduct on or off campus, the institution may do so, providing such denial is consistent with state and federal law.

	Agree	Disagree
FCS	14	1
SUS	6	0

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Coursework Taken after the AA and the 2+2 Guarantee

Add to the Articulation Rule the following language:
 Proposed 6A-10.024(5): Pursuant to section 1007.25(9), F.S., after award of the associate in arts degree, students may earn additional credits in courses required for a degree or prerequisites to courses required for the degree. Credit awarded pursuant to this subsection does not exclude students from the provision in subsection (3) above [this subsection is the AA transfer guarantee] [Add language regarding maintenance of the 2.0 GPA for all additional coursework]

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Coursework Taken after the AA and the 2+2 Guarantee

	Agree	Disagree
FCS	15	0
SUS	4	2

Comments

Will financial aid cover these additional courses?

If a student fails several courses after the AA and wants to transfer, we need to be able to deny admission. We must be able to admit based on all coursework attempted/completed.

Beyond the AA, those required for Bachelor's degree or as prerequisites for Bachelor's degree must be taken at a State University

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Transient Student Credit

- This following language has been proposed for universities, should it apply to all Florida colleges and universities?
Each institution within the State University System has the responsibility of providing academic guidance to its students, with the goal of having students complete their degree programs in accordance with university academic policy. As part of that responsibility, each university may determine which, if any, courses may be taken by students at a college or university other than the home institution. Baccalaureate deans exercise this authority through the transient-student process, and credit taken outside this process may be refused by the home institution.

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Transient Student Credit

	I agree with this policy statement; each college and university should have this authority	I disagree with this policy statement
FCS	13	2
SUS	6	0

Comments

If a required course is listed as equivalent on SCNS it should never be denied. If the course is not a match through SCNS, Deans should have full discretion.

I think giving colleges or universities the discretion to choose which courses a student can take outside of the home institution seems like a direct contrast to the purpose of SCNS.

Change wording to "Baccalaureate dean or designee."

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Courses Included in the Associate in Arts Degree

BOG Regulation guarantees the transfer of an AA from a Florida public postsecondary institution, provided the AA has been awarded for completion of 60 semester hours of college credit courses "exclusive of courses not accepted in the state university system." For students transferring with an AA, are all courses that make up the AA accepted in transfer?

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Courses Included in the Associate in Arts Degree

	Yes	No
FCS	15	0
SUS	4	2

Comments

It is possible, however that not all courses will be accepted to meet prerequisite requirements.

If a student is awarded an A.A. degree, than the whole degree and thus 60 hours should come in as transfer. Would the universities then pick through the A.A. degree to determine which courses wouldn't count thereby reducing the number of credits a student earned?

There many be situations where the courses do not directly transfer. In that case, the student received block credit to make up the 60 hours.

Beyond General Education courses, acceptance of all other courses must be at the discretion of the University

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Program Accreditation

Special program accreditation standards do not generally prohibit the transfer of credit from not-similarly accredited programs, but anecdotally there are situations where students are advised that credit will not transfer, particularly in regulated industries. If a student has completed equivalent credit under the Statewide Course Numbering System from an institution's program that does not have the same accreditation as the receiving institution, may that receiving institution deny the award of credit?

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Program Accreditation

	Yes	No
FCS	7	8
SUS	4	2

Comments

Some discrepancies may occur with SUS institutions....for instance, would an SUS accept BSN credit before the program is accredited by the special accrediting body(a new program)?

SCNS typically assures equivalency

We would want to determine the credentialing level of a faculty member.

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Transfer of Quarter Hours

Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours. At your institution, may a student satisfy requirements such as general education or Gordon Rule through appropriate coursework, even if in conversion the credits may be short by one or more credits?

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Transfer of Quarter Hours

	Yes	No
FCS	6	9
SUS	4	2

Comments

Yes, if less than one semester hour

The missing credits are waived and students are advised to monitor the number of credits they earn to ensure they meet the 120+ minimum required for graduation.

Missing credits are made up from other coursework.

Category deficiencies of more than one (1) semester credit hour will be made up from the courses designated to satisfy the category. If all categories have been met within the one (1) semester credit hour rule but the total general education hours are deficient, the hours may be made up from any category.

Quarter hour courses are articulated at 2.67 hours. Students may satisfy components of general education with quarter hours, but must have 36 hours overall for general education. These extra hours can be made up in various ways.

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Recency of Credit

Among Florida College System institutions, there is a variety of policies that govern the recency of credit. Some institutions have no age limit/expiration, some have a five year limit for courses in Nursing, some direct the question to the department. What is your institution's policy regarding credit expiration/recency of credit for transfer?

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Recency of Credit

	FCS	SUS
No age of credit limit for transfer	9	3
An age of credit limit is imposed for Nursing	3	2
An age of credit limit is imposed for most health areas	5	1
An age of credit limit is imposed for technology areas	2	2
No institution policy, the department may determine	3	2

Comments

Some programs such as nursing have an age of credit limit on certain courses, as it applies to the program. But the transfer credit is awarded by the institution.

We are unclear about how this fits in with state regulations about course retakes. That has always seemed to be an issue when this topic has come up at CIA.

Imposed on Science courses which apply to nursing

Technology, nursing/health, business (accounting, finance) have recency policies.

Undergraduate credits which are more than ten years old may be reviewed and reevaluated for credit toward current degree requirements at UWF. Specific programs and teacher education programs may have more stringent requirements

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Are there other articulation issues that require a statewide review?

Comments

Education Common Prerequisite Discipline Committee; curriculum alignment between SUS and FCS to facilitate transfer

Transfer of competency-based credit, such as the engineering program at Polk

I would like to know that students from our more rural region get the same consideration and opportunities at their local SUS as their urban and suburban counterparts.

The currency/adequacy of the SCNS review of faculty credentials for non-regionally accredited institutions that are part of the SCNS.

Metamajors – these need to be included or replace the multiple common prerequisite pathways.

Have all lower division courses required specified in the common prerequisites.

SUS acceptance of accounting courses from transient students

As a participant of Credit When It's Due (reverse transfer), I would like to see a statewide policy that allows all SUS and FCS institutions to participate and offers institutions guidelines on how to do so.

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2015 “Articulation” Legislation



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SB 7028 - Educational Opportunities for Veterans

Congressman C.W. “Bill” Young Veteran Tuition Waiver Program (est. 2014)

Current: Waives out-of-state fees for honorably discharged veterans who reside in Florida while enrolled. Covers 110% of the credit hours necessary.

Change: Expands eligibility to those entitled to and use educational assistance provided by the United States Department of Veterans Affairs for a quarter, semester, or term beginning after July 1, 2015, who physically reside in Florida while enrolled.

Removes 110% allowance for required credit hours.

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HB 7069- Education Accountability

- Eliminates the requirement for the administration of the Postsecondary Education Readiness Test (PERT) for grade 11 students, and based on performance, to be enrolled in college success or readiness courses in their senior year.
- PERT administration a local district decision
- College Readiness courses continue to meet high school graduation requirements

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HB 7069- Education Accountability

- Deletes the requirement that students who score Level 1 or Level 2 on statewide assessments must enroll in and complete a remedial course or a content area course in which remediation strategies are incorporated into course content.
- All other high school standard diploma requirements remain in place and unchanged.

More information about HB 7069 at the following address:

<http://www.fldoe.org/core/fileparse.php/7506/urlt/Information-on-House-Bill-7069.pdf>

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Higher Education Coordinating Council (HECC) 2015 Priorities



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HECC Priority Areas - 2015

In its 2014 Annual Report, the Higher Education Coordinating Council identified priority areas and other topics of interest for consideration in 2015.

Priority Areas


1. Continue to encourage and support all education sectors in defining key performance metrics to align with statewide higher education policy and fiscal goals, recognizing that performance benchmarks might differ by delivery sector and program.
2. Broaden its commitment to seamless articulation pathways by incentivizing higher education institutions to increase the number and proportion of transfer students receiving credit towards their intended program of study always keeping in mind issues of accreditation and quality.
3. Expand incentives to promote collaboration between the business community and the education system, utilizing our higher education assets as a component of our economic development activities.
4. Continue to align, prioritize and incentivize education funding to better meet Florida's industry talent needs through the use of the best available labor market intelligence and industry data.

Other Topics of Interest

1. Examine state merit and need-based financial aid programs to maximize benefits to Florida students, taxpayers, and industry talent needs.
2. Institute mechanisms that identify certificate and degree programs to meet current and future workforce needs.
3. Enhance career education and counseling in middle and high schools.

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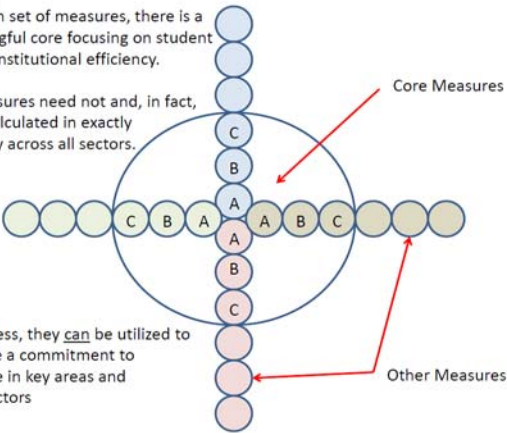


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Performance Funding Metrics


Core Measures Paradigm

- All sectors have various accountability measures.
- Within each set of measures, there is a most meaningful core focusing on student success and institutional efficiency.
- These measures need not and, in fact, can not be calculated in exactly the same way across all sectors.
- Nevertheless, they can be utilized to demonstrate a commitment to performance in key areas and across all sectors



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Performance Funding Metrics – FCS and SUS

STATE UNIVERSITY SYSTEM/ BOARD OF GOVERNORS	FLORIDA COLLEGE SYSTEM/ STATE BOARD OF EDUCATION
Percent of Bachelor's Graduates Employed or Continuing Education	Job Placement
Cost Per Degree	Cost Per Degree
Six Year Graduation Rate	Graduate Rate
Academic Progress Rate	Retention Rate
University Access Rate	Pell Grant Student Graduation Rate
Average Wages of Employed Baccalaureate Graduates	Completer Entry Level Wages
	Time to Degree
	Credit Milestones
Board of Governors Choice	Local Measure
Bachelor's Degrees Awarded in Areas of Strategic Emphasis	
Master's Degrees Awarded in Areas of Strategic Emphasis	
Freshmen in Top 10% of Graduating High School Class	

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Articulation Pathways Project

Source:
Dr. Ed Moore, ICUF

Opportunity Pathways to Careers

Updating & Upgrading the 2+2 System

The original 2+2 System which fueled the spectacular growth and success of state colleges, state universities and independent colleges and universities over the past 50 years was a simple design...two years of general studies...two years of major studies.

Times have changed, students have changed, technology has changed. High school students are earning college credits at school, on campuses and online. Non-traditional students are returning to finish their degrees started long ago. More college credits are being earned more ways than ever before; but navigating these new routes to a bachelor's degree without wasting time or money is a daunting challenge.

Today's technologies and the nation's roadways can route anyone from anywhere to any destination nationwide, using Global Positioning Systems (GPS). Higher Education needs a comparable Graduation Pathways System that routes today's students ... high school, traditional and non-traditional to their bachelor's degree. The goal of this transfer project is to update and upgrade Florida's 2+2 system, creating clear pathways for Florida students to their bachelor's degrees and successful careers.

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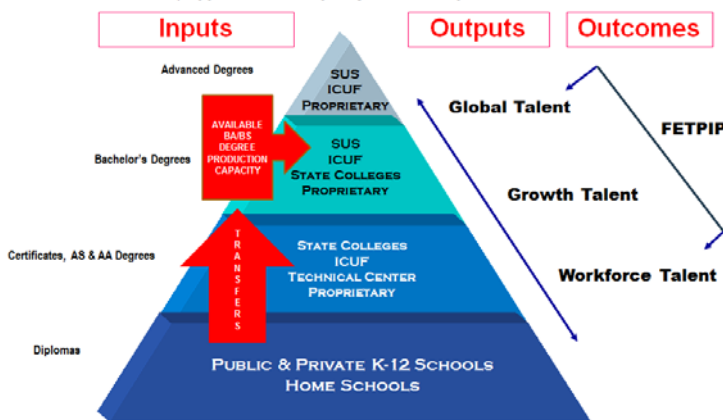
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Articulation Pathways Project

This transfer project's focus is: 1) Dual Enrollment Bachelor Degree Credits Earned to Transfer; 2) the Number of AA Degree Awards & Transfer Routing; and 3) Upper Division Capacity for AA Completers Transfer.



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The Challenges of Direction & Velocity

In its time, the 2+2 System was perfectly attuned to its time.
 one community college | one AA degree | one transfer | one university |
 one bachelor's degree.

Today, that "2+2" design is challenged and requires upgrading.
 High school, traditional and non-traditional students present unique
 challenges in an increasingly mobile and technology-driven world ...
 the challenges of direction & velocity to complete a bachelor's degree.

"How do I get there?"

"How fast can I get there?"

"Does anyone get there faster?"

"How much should taxpayers pay?"

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The 3rd Factor

But there is a third factor
 in this equation
 besides Direction and Velocity that
 must be unraveled.

Fuel

Both an individual's fuel,
 the funding that an individual brings to
 pay their educational and living
 expenses while studying

And donors' fuel, the funding that
 federal, foundation, state, institutional
 and local donors add.

Individuals are higher education
 consumers making their investment
 decisions.

And donors are making investment
 decisions, as well.

Direction & Velocity Fuel

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Articulation Pathways Project - Discussion

- What actions would improve the direction and velocity of dual enrollment students? Are there dual enrollment alternatives, inducements or modifications that boost student success?
- What actions would improve the direction and velocity of AA degree-seeking students to bachelor's degree completion? Could a Graduation Pathways System (GPS) provide each AA student with a route or several routes to bachelor's degree success?
- What actions would increase upper division capacity for additional AA completers transfers?

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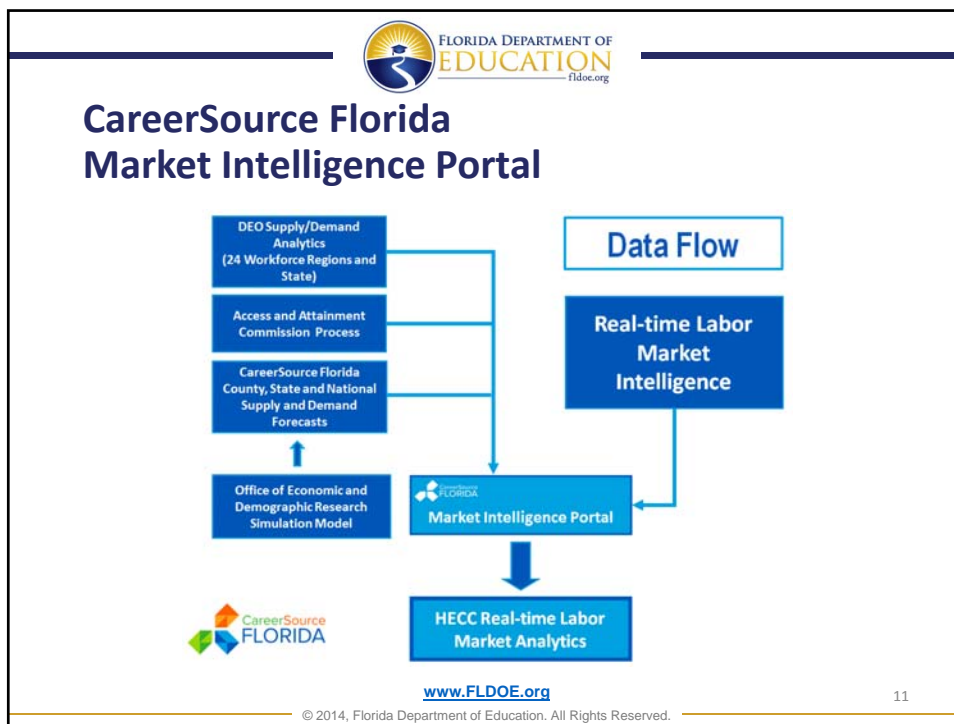
Collaboration Between Business and Education Communities

- Teacher Externships
- Student Internships
- Matching grant programs
 - State University System
 - Major Gifts Matching Endowment Program
 - Alec P. Courtelis Facility Enhancement Challenge Grant Program
 - Florida College System
 - Dr. Philip Benjamin State Matching Program Contributions
 - Facility Enhancement Challenge Grant Program

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6A-14.0303 General Education Core Course Options.

(1) Prior to the award of an associate in arts or baccalaureate degree, first-time-in-college students entering a Florida College System institution in the Fall Term, 2015, and thereafter must complete at least one (1) course from each of the general education subject areas listed in this section.

(a) Communication:

1. ENC X101 English Composition I; or

2. Any student who successfully completes a course with an ENC prefix for which ENC X101 is an immediate prerequisite shall be considered to have completed the communication core.

(b) Humanities:

1. ARH X000 Art Appreciation;

2. HUM X020 Introduction to Humanities;

3. LIT X000 Introduction to Literature;

4. MUL X010 Music Literature/Music Appreciation;

5. PHI X010 Introduction to Philosophy; or

6. THE X000 Theatre Appreciation.

(c) Mathematics:

1. MAC X105 College Algebra;

2. MAC X311 Calculus I;

3. MGF X106 Liberal Arts Mathematics I;

4. MGF X107 Liberal Arts Mathematics II;

5. STA X023 Statistical Methods; or

6. Any student who successfully completes a mathematics course for which one (1) of the general education core course options in mathematics is an immediate prerequisite shall be considered to have completed the mathematics core.

(d) Natural Sciences:

1. AST X002 Descriptive Astronomy;

2. BSC X005 General Biology;

3. BSC X010 General Biology I;

4. BSC X085 Anatomy and Physiology I;

5. CHM X020 Chemistry for Liberal Studies;

6. CHM X045 General Chemistry I;

7. ESC X000 Introduction to Earth Science;

8. EVR X001 Introduction to Environmental Science;

9. PHY X020 Fundamentals of Physics;

10. PHY X048 General Physics with Calculus;

11. PHY X053 General Physics I; or

12. Any student who successfully completes a natural science course for which one (1) of the general education core course options in natural science is an immediate prerequisite shall be considered to have completed the natural science core.

(e) Social Sciences:

1. AMH X020 Introductory Survey Since 1877;

2. ANT X000 Introduction to Anthropology;

3. ECO X013 Principles of Macroeconomics;

4. POS X041 American Government;

5. PSY X012 Introduction to Psychology; or

6. SYG X000 Principles of Sociology.

(f) Each institution may apply its own course titles to the general education core course options.

(2) Institutions shall report to the Statewide Course Numbering System, established in Section 1007.24, F.S., all courses used to fulfill subject area core course options. Any course recommended to be added to the list of general education core course options from subsection (1) of this rule shall be reported to the Office of K-20 Articulation at <http://fldoe.org/articulation> for review.

(3) Institutions must recognize credit earned through an acceleration mechanism in Section 1007.27, F.S., as meeting the related general education core course requirement.

(4) Institutions may grant a substitution or modification to the courses listed above for eligible disabled students, subject to Rule 6A-10.041, F.A.C.

(5) The remaining courses and credits, in addition to the core course options, to fulfill the total 36-hour general education requirement are at the discretion of the Florida College System institution.

Rulemaking Authority 1001.02(1), (2)(n), (6)(d)3., 1007.25(3) FS. Law Implemented 1007.25(3) FS. History—New 5-18-14.

	General Education Core Subject Areas									
	Communication		Humanities		Mathematics		Natural Science		Social Science	
	Additional	Rule.Reg	Additional	Rule.Reg	Additional	Rule.Reg	Additional	Rule.Reg	Additional	Rule.Reg
BROWARD COLLEGE		1		5		5		10		6
CHIPOLA COLLEGE		1		4		5		9		5
COLLEGE OF CENTRAL FLORIDA		1		6		5		11		6
DAYTONA STATE COLLEGE		1		6		5		10		6
EASTERN FLORIDA STATE COLLEGE		1		6		5		7		5
FLORIDA A & M UNIVERSITY		1	2	4		5	3	9		6
FLORIDA ATLANTIC UNIVERSITY		1		5		5		10		6
FLORIDA GATEWAY COLLEGE	1	1		5	3	5	5	9		5
FLORIDA GULF COAST UNIVERSITY		1		5		5		11		6
FLORIDA INTERNATIONAL UNIVERSITY		1		6		5		8		6
FLORIDA KEYS COMMUNITY COLLEGE		1		4		4		6		5
FLORIDA POLYTECHNIC UNIVERSITY		1		2	1	2		3		3
FLORIDA SOUTHWESTERN STATE COLLEGE		1		6		5		9		5
FLORIDA STATE COLLEGE AT JAX.	2	1	2	6		5		11		6
FLORIDA STATE UNIVERSITY		1		6		5		11		6
GULF COAST STATE COLLEGE		1		6		5		10		6
HILLSBOROUGH COMMUNITY COLLEGE		1		6		5		10		6
INDIAN RIVER STATE COLLEGE		1		6		5		8		5
LAKE-SUMTER STATE COLLEGE		1		6		5		11		6
MIAMI DADE COLLEGE		1		6		5		11		6
NORTH FLORIDA COMMUNITY COLLEGE		1		4		5		9		5
NORTHWEST FLORIDA STATE COLLEGE		1		5		5		11		6
PALM BEACH STATE COLLEGE	1	1		5		5		9		6
PASCO-HERNANDO STATE COLLEGE		1		5		5		8		6
PENSACOLA STATE COLLEGE		1	1	4		5	2	8		6
POLK STATE COLLEGE		1		6	5	5	4	10		6
SANTA FE COLLEGE		1		6		5		10		6
SEMINOLE STATE COLLEGE OF FLORIDA		1		6		5		10		6
SOUTH FLORIDA STATE COLLEGE		1		5		5	3	8		5
ST. JOHNS RIVER STATE COLLEGE		1		6		5		11		6
ST. PETERSBURG COLLEGE		1		5		5		8		6
STATE COLLEGE OF FLORIDA, MANATEE-SARASOTA	2	1		6		5		11		6
TALLAHASSEE COMMUNITY COLLEGE		1		6		5		10		6
UNIVERSITY OF CENTRAL FLORIDA	1	1		4	6	5	37	9		6
UNIVERSITY OF FLORIDA		1		5		5		9		6
UNIVERSITY OF NORTH FLORIDA		1		4		5		10		6
UNIVERSITY OF SOUTH FLORIDA		1		6		5		11		6
UNIVERSITY OF WEST FLORIDA		1		5		5		11		6
VALENCIA COLLEGE		1		6	3	5	1	11		6

Rule.Reg = Those courses identified in SBE Rule and BOG Regulation

General Education Core Courses
Additional Courses Identified by Institutions as General Education Core
Data as of May 22, 2015

Institution	Course Number	Course Title	Gen Ed Core Area
FLORIDA STATE COLLEGE AT JAX.	ASL 1000	ORIENTATION TO DEAFNESS (L)	Communication
FLORIDA GATEWAY COLLEGE	ENC 1102	FRESHMAN COMPOSITION SKILLS II	Communication
FLORIDA STATE COLLEGE AT JAX.	ENC 1102	WRITING ABOUT TEXTS	Communication
PALM BEACH STATE COLLEGE	ENC 1102	HONORS COLLEGE COMPOSITION 2	Communication
STATE COLLEGE OF FLORIDA, MANATEE-SARASOTA	ENC 1102	WRITTEN COMMUNICATIONS II	Communication
UNIVERSITY OF CENTRAL FLORIDA	ENC 1102	COMPOSITION II	Communication
STATE COLLEGE OF FLORIDA, MANATEE-SARASOTA	SPC 1608	PUBLIC SPEAKING (L)	Communication
FLORIDA STATE COLLEGE AT JAX.	DAN 2100	DANCE IN THE HUMANITIES	Humanities
FLORIDA STATE COLLEGE AT JAX.	ENG 1100	FILM STUDIES	Humanities
FLORIDA A & M UNIVERSITY	HUM 2210	ANCIENT TIMES THROUGH THE RENAISSANCE	Humanities
FLORIDA A & M UNIVERSITY	LIT 2110	WORLD LITERATURE THROUGH THE RENAISSANCE	Humanities
PENSACOLA STATE COLLEGE	MUH 2011	INTRO. TO MUSIC HISTORY-APPREC I	Humanities
FLORIDA GATEWAY COLLEGE	MAC 1114	TRIGONOMETRY	Mathematics
POLK STATE COLLEGE	MAC 1114	TRIGONOMETRY	Mathematics
VALENCIA COLLEGE	MAC 1114	TRIGONOMETRY	Mathematics
UNIVERSITY OF CENTRAL FLORIDA	MAC 1114C	COLLEGE TRIGONOMETRY	Mathematics
FLORIDA GATEWAY COLLEGE	MAC 1140	PRECALCULUS ALGEBRA	Mathematics
POLK STATE COLLEGE	MAC 1140	PRECALCULUS ALGEBRA	Mathematics
VALENCIA COLLEGE	MAC 1140	PRECALCULUS ALGEBRA	Mathematics
UNIVERSITY OF CENTRAL FLORIDA	MAC 1140C	PRE-CALCULUS ALGEBRA	Mathematics
POLK STATE COLLEGE	MAC 1147	PRECALCULUS ALGEBRA/TRIGONOMETRY	Mathematics
FLORIDA POLYTECHNIC UNIVERSITY	MAC 1281	ENGINEERING CALCULUS I	Mathematics
POLK STATE COLLEGE	MAC 2233	CALCULUS FOR BUSINESS & SOC. SCI. I	Mathematics
VALENCIA COLLEGE	MAC 2233	CALCULUS FOR BUSINESS & SOC. SCI. I	Mathematics
FLORIDA GATEWAY COLLEGE	MAC 2312	CALCULUS WITH ANALYTIC GEOMETRY II	Mathematics
POLK STATE COLLEGE	MAC 2312	CALCULUS WITH ANALYTIC GEOMETRY II	Mathematics
UNIVERSITY OF CENTRAL FLORIDA	MAC 2312	HONORS CALCULUS WITH ANALYTIC GEOMETRY II	Mathematics

Institution	Course Number	Course Title	Gen Ed Core Area
UNIVERSITY OF CENTRAL FLORIDA	MHF 3302	LOGIC AND PROOF IN MATHEMATICS	Mathematics
UNIVERSITY OF CENTRAL FLORIDA	MTG 4212	MODERN GEOMETRIES	Mathematics
UNIVERSITY OF CENTRAL FLORIDA	STA 4183	THEORY OF INTEREST	Mathematics
UNIVERSITY OF CENTRAL FLORIDA	AST 3110	SOLAR SYSTEM ASTRONOMY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	AST 3211	STELLAR ASTROPHYSICS	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	AST 3402	GALAXIES AND COSMOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	AST 3722C	TECHNIQUES OF OBSERVATIONAL ASTRONOMY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	AST 4142	ASTERIODS, COMETS, AND METEORITES	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	AST 4152	PLANETARY GEOPHYSICS	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	AST 4700	EXPERIMENTAL METHODS IN ASTRONOMY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BOT 3152C	LOCAL FLORA	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BOT 3802	ETHNOBOTANY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BOT 4434C	GENERAL MYCOLOGY	Natural Science
SOUTH FLORIDA STATE COLLEGE	BSC 1011C	GENERAL BIOLOGY (CONT.)	Natural Science
SOUTH FLORIDA STATE COLLEGE	BSC 1086C	ANATOMY & PHYSIOLOGY (2 OF 2) (HS MAJ.) NO PREREQ	Natural Science
FLORIDA GATEWAY COLLEGE	BSC 2011C	GENERAL BIOLOGY (CONT.)	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BSC 2011C	BIOLOGY II	Natural Science
FLORIDA GATEWAY COLLEGE	BSC 2086	ANATOMY & PHYSIOLOGY (2 OF 2) (HS MAJ.) NO PREREQ	Natural Science
POLK STATE COLLEGE	BSC 2086C	ANATOMY & PHYSIOLOGY (2 OF 2) (HS MAJ.) NO PREREQ	Natural Science
FLORIDA A & M UNIVERSITY	BSC 2093	ANATOMY & PHYSIOLOGY (1 OF 2) (HS MAJ.) WITH PREREQ	Natural Science
VALENCIA COLLEGE	BSC 2093C	ANATOMY & PHYSIOLOGY (1 OF 2) (HS MAJ.) WITH PREREQ	Natural Science
FLORIDA A & M UNIVERSITY	BSC 2094	ANATOMY & PHYSIOLOGY (2 OF 2) (HS MAJ.) WITH PREREQ	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BSC 3312	PRINCIPLES OF MARINE BIOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BSC 3402C	INTEGRATIVE BIOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	BSC 3403C	HONORS QUANTITATIVE BIOLOGICAL METHODS	Natural Science
PENSACOLA STATE COLLEGE	CHM 1025	INTRODUCTION TO GENERAL CHEMISTRY	Natural Science
POLK STATE COLLEGE	CHM 1046C	GENERAL CHEM II (LAST COURSE IN SEQUENCE)	Natural Science
FLORIDA GATEWAY COLLEGE	CHM 2046	GENERAL CHEM II (LAST COURSE IN SEQUENCE)	Natural Science
SOUTH FLORIDA STATE COLLEGE	CHM 2046C	GENERAL CHEM II (LAST COURSE IN SEQUENCE)	Natural Science

Institution	Course Number	Course Title	Gen Ed Core Area
UNIVERSITY OF CENTRAL FLORIDA	CHM 2046C	HONORS CHEMISTRY FUNDAMENTALS II	Natural Science
FLORIDA A & M UNIVERSITY	GLY 2001	INTRO TO EARTH & SPACE SCIENCES	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	MCB 2004C	INTRODUCTORY MICROBIOLOGY: BIOLOGY/ CHEMISTRY PREREQUISITE	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	MCB 3020C	HONORS GENERAL MICROBIOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 3023	MOLECULAR CELL BIOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 3044	PRINCIPLES OF ECOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 3063	HONORS GENETICS	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 3233	IMMUNOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 3442	AQUATIC ECOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 3703C	HONORS HUMAN PHYSIOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 4174	FOUNDATION OF BIO-IMAGING SCIENCE	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 4353	FLORIDA NATURAL HISTORY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 4521	TISSUE ENGINEERING	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PCB 4722	COMPARATIVE ANIMAL NUTRITION	Natural Science
PENSACOLA STATE COLLEGE	PHY 1025	BASIC PHYSICS (ONE SEMESTER)	Natural Science
FLORIDA GATEWAY COLLEGE	PHY 2049C	GEN PHYS W/CALCULUS II (2 SEM SEQ)	Natural Science
POLK STATE COLLEGE	PHY 2049C	GEN PHYS W/CALCULUS II (2 SEM SEQ)	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PHY 2049C	PHYSICS FOR ENGINEERS AND SCIENTISTS II	Natural Science
FLORIDA GATEWAY COLLEGE	PHY 2054C	GENERAL PHYSICS II (2 SEM SEQ)	Natural Science
POLK STATE COLLEGE	PHY 2054C	GENERAL PHYSICS II (2 SEM SEQ)	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PHY 2054C	HONORS COLLEGE PHYSICS II	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	PHY 3220	MECHANICS I	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 3713C	COMPARATIVE VERTEBRATE ANATOMY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 3733C	HONORS HUMAN ANATOMY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 3736C	EXERCISE PHYSIOLOGY ANATOMY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 3744	NEUROBIOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 4205C	BIOLOGY AND ECOLOGY OF METAZOAN INVERTEBRATES	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 4310C	VERTEBRATE EVOLUTION & ECOLOGY	Natural Science
UNIVERSITY OF CENTRAL FLORIDA	ZOO 4480	MAMMALOLOGY	Natural Science