

# PreK-12 Policy Committee Wednesday, January 20, 2010 10:00 a.m. Morris Hall 

## Meeting Packet

# The Florida House of Representatives 

Education Policy Council
PreK-12 Policy Committee

| Larry Cretul | John Legg |
| :--- | ---: |
| Speaker | Chair |

Meeting Agenda<br>Wednesday, January 20, 2010<br>10:00 a.m.<br>Morris Hall

I. Call to Order/Roll Call
II. Presentation by Hillsborough County Public Schools
III. Workshop on Standards and Assessments
IV. Closing Comments/Adjournment

End of Course Exams

## End of Course Exam History

- Since the mid-1970's, Hillsborough County Public Schools (HCPS) has developed and administered End of Course (EOC) exams.
- These instruments serve as valuable tools in measuring student mastery of content and ensuring consistent adherence to curriculum standards and course instructional timelines.


## How we develop EOC exams

- Teams of teachers with content expertise, under the supervision of subject area curriculum specialists, meet to review course objectives.
- Curricula, instructional timelines, teaching strategies, and exams are developed.
- All exams and resources are correlated to the Sunshine State Standards.


## How we use EOC exam data

- Once exams are administered, they are scanned into Achievement Series (SCANTRON).
- Analysis is conducted to determine the validity and reliability of exams and individual test items.
- School and district administrators and teachers can use the data to measure whether benchmarks are met and whether learning has taken place.


## How we use EOC exam data (con't)

- Using the Achievement Series data dashboard, comparisons can be made between classrooms and schools across the district.
- The exam counts for $25 \%$ of the student's semester grade and helps communicate student achievement to parents.
- Test reliability estimates are an important factor in developing and administering teacher performance pay programs.


## EOC exams meet instructional needs

- Disaggregated data can provide teachers and schools with the data to address student needs and guide instruction.
- Student academic achievement can improve.
- The Sunshine State Standards are addressed with confidence.
- Helps teachers focus on improving instruction.
- Aid in planning staff development, selecting instructional materials, and teaching resources.


## Value added by EOC exams

- EOC exams serve as a reliable measure of student achievement in non-FCAT courses.
- Utilizing EOC exams have helped HCPS develop a Merit Award Program (MAP). HCPS is a leader in creating performance pay programs.
- HCPS has served as a clearinghouse to provide other districts with EOC exams and test items.
- HCPS was awarded a $\$ 100$ million "Empowering Effective Teachers" grant from the Gates Foundation partly based on our experience with EOC exams.


## Workshop

- High School Course Requirements in Mathematics and Science
- End-Of-Course (EOC) Assessments
- High-Stakes Assessments
- Other EOC Assessments
- Options for Students Who Fail EOC Assessments
- Effect on School Grades
- DOE's Transition to Next Generation and Computer-Based Tests in Florida
- Computer-Based Tests
- Replace Certain FCAT Assessments with EOC Assessments
- Race to the Top Funding


## High School <br> Graduation Requirements

| Subject | Credits | 2007-2008 \& Subsequent School Years <br> 24 Credits |
| :--- | :---: | :--- |
| English | 4 | major concentration in composition, reading <br> for information, and literature |
| Mathematics | 4 | including 1 credit of Algebra I, equivalent or <br> higher level; School districts encouraged to <br> increase enrollment in Geometry and Algebra <br> II |
| 2 credits must have a laboratory component |  |  |
| Science | 3 | including 1 credit in American History, 1 <br> credit in World History, 0.5 credits in <br> Economics, and 0.5 credits in American <br> Government |
| Social <br> Sciences | $\mathbf{3}$ | may include Speech and Debate |
| Fine or <br> Performing <br> Arts | $\mathbf{1}$ | including integration of health |
| Physical <br> Education | 8 | credits in Majors, Minors, or Electives (4 <br> credits in Major Area of Interest and 4 <br> credits in Elective Courses - second major <br> Area of Interest, Minor Area of Interest, <br> Elective Courses, or Intensive Reading or <br> Mathematics Intervention courses) |
| Electives |  |  |

## Transition to Next Generation and Computer-based Tests in Florida: Plans Currently Included in the FCAT II Contract

Computer-based Tests: Grades and subjects which are optional by school in CBT or PBT are shown in bold, italic; full CBT administration except for accommodations are shown in bold, italic, underlined.

|  | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FCAT | Reading (3-10), <br> Mathematics (3-10), <br> Science (No SRs/ERs; 5, 8, <br> 11), <br> Writing $(4,8,10)$ <br> Reading \& Math Retakes <br> (fall, spring) | Science (No SRs/ERs; 5, 8, 11), <br> Writing $(4,8,10)$ <br> Reading \& Math Retakes (fall, spring) | Writing $(4,8,10)$ <br> Reading \& Math Retakes (fall, spring) | Reading \& Math Retakes (fall, spring) | Reading \& Math Retakes (fall, spring) |
| FCAT II | Reading (3-10) (FT) <br> Mathematics (3-8) (FT) | Reading (3-10) (B) <br> Mathematics (3-8) (B) <br> Science $(5,8)(\mathrm{FT})$ | Reading (3-6, 7, 8-10) (SS) <br> Reading Retake (fall) <br> Mathematics (3-8) (SS) <br> Science $(5,8)(B)$ | Reading (3-6, ㄱ, 8-9, $\underline{10}$ ) <br> Reading Retake (fall) <br> Mathematics (3-6, Z 8) <br> Science (5, 8) (SS) <br> Writing (4, 7, 11) (B) | Reading (3-4, $\mathbf{5}, 6, \mathbf{7}, 8-9$, <br> 10) <br> Reading Retake (fall) <br> Mathematics (3-5, 6-7, 8) <br> Science $(5,8)$ <br> Writing (4, 7,11) (SS) |
| End-of-Course | Algebra 1 (FT) <br> Geometry (FT) | Algebra 1 (B) <br> Geometry (B) <br> Biology (FT) | Algebra 1 (SS) <br> Geometry (SS) <br> Biology (B) <br> US History (FT) | Algebra 1 <br> Geometry <br> Biology (SS) <br> US History (B) | Algebra 1 <br> Geometry <br> Biology <br> US History (SS) |

Notes: Provision of end-of-course (EOC) tests requires legislative action to allow use of EOCs instead of comprehensive tests in high school. The Geometry EOC field test is being added to the FCAT II contract through a pending contract amendment.
FT - Field test administration only; EOCs will be field-tested in a sample of high schools only.
B - Baseline administration; a scale score will be reported; no developmental score or achievement levels will be available.
SS - Standards set; developmental scores, achievement levels, and passing scores will be reported for the first time.

## STATE COLLEGE- AND CAREER-READY HIGH SCHOOL GRADUATION REQUIREMENTS

Clear and compeling evidence shows that the level of the courses students take in high school is one of the best predictors of their success in college and the workplace. This is particularly true in mathematics: Data show a strong correlation between taking higher-level mathematics courses in high school and achieving success in college and employment in high-growth, high-performance jobs. Rigorous coursetaking matters for all students, but it is particularly important for students from disadvantaged backgrounds.

Taking a challenging high school curriculum - including but not limited to content typically taught in Algebra II - cuts in half the gap in college completion rates between white students and black and Latino students. The number of courses students are required to take has been on the rise for the past quarter century, but until recently, few states specified which courses students are required to take and set their graduation expectations at the appropriate level to ensure that graduates are prepared for success in college and the workplace.

Achieve's research suggests that for high school graduates to be prepared for success in postsecondary settings, they need to take four years of challenging mathematics - including content at least through Algebra II or its equivalent - and four years of rigorous English aligned with college- and career-ready standards.

## Nineteen States Require All Students to Complete a College- and Career-Ready Curriculum

At the time of the Summit three years ago, only two states - Texas and Arkansas - had set their requirements at a level that would ensure that all graduates were prepared for success in college and the workplace. Today, 19 states - Alabama, Arizona, Arkansas, Delaware, Georgia, Indiana, Kentucky, Michigan, Minnesota, Mississippi, New Mexico, New York, North Carolina, Ohio, Oklahoma, South Dakota, Tennessee, Texas and Washington - and the District of Columbia, accounting for almost half of students in the U.S., have elevated their high school diploma requirements to the college- and career-ready level. Another ten states report plans to move in this direction in coming years.

States raising their course requirements to the level recommended by ADP have taken one of two approaches:

- Six states and the District of Columbia have set mandatory course requirements without opt-out provisions.
- Thirteen states require students to automatically enroll in the "default" college- and career-ready curriculum but allow them to opt out of the requirements - typically mathematics requirements - if their parents sign a waiver.

Both approaches are designed to do away with the type of tracking that has long existed in American high schools and continues to leave many students unprepared for the world they enter after
 high school.

STATE COLLEGE- AND CAREER-READY HIGH SCHOOL GRADUATION REQUIREMENTS

| STATE DIPLOMA | YEAR NEW REQUIREMENTS PASSED | 1 ITMPACTED EXPECTED graduating CLASS | REQUIRE. MENT | \#OF REQUIRED CREDITS | CHANGE IN TOTAL REQUIRED CREDITS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ALABAMA FIRST CHOICE DIPLOMA | 2008 | 2013 | Default | 24 | 0 |
| ARIZONA HIGH SCHOOL DIPLOMA | 2007 | 2013 | Default | 22 | +2 |
| ARKANSAS SMART CORE | 2004 | 2010 | Default | 22 | 0 |
| DELAWARE HIGH SCHOODIPLOMA | 2006 | 2011 (2013: For Lang Added) | Mandatory | 24 | +2 |
| DISTRICT OF COLUMBIA | 2007 | 2011 | Mandatory | 24 | +0.5 |
| GEORGIA HIGH SCHOOL DIPLOMA | 2007 | 2012 | Mandatory | 23 | +1 |
| INDIANA CORE 40 | 2005 | 2011 | Default | 20 | 0 |
| KENTUCKY DIPLOMA | 2006 | 2012 | Mandatory | 22 | 0 |
| MICHIGAN MERIT CURRICULUM | 2006 | 2011 (2016: For Lang Added) | Default | 18 | +18 |
| MINNESOTA HIGH SCHOOL DIPLOMA | 2006 | 2015 | Mandatory | 21.5 | 0 |
| MISSISSIPPI HIGH SCHOOL DIPLOMA | 2006 | 2012 | Default | 24 | +4 |
| NEW MEXICO DIPLOMA OF EXCELLENCE | 2007 | 2013 | Default | 24 | +1 |
| NEW YORK REGENTS DIPLOMA | 2005 | 2010 | Mandatory | 22 | 0 |
| NORTH CAROLINA FUTURE-READY CORE | 2007 | 2013 | Default | 21 | +1 |
| OHIOCORE | 2007 | 2014 | Default | 20 | 0 |
| OKLAHOMA COLLEGEPREP \& WORK-READY CURRICULUM | 2005 | 2010 | Default | 23 | 0 |
| SOUTH DAKOTA ADVANCED HIGH SCHOOL DIPLOMA | 2005 | 2010 | Default | 22 | 0 |
| TENNESSEE READY CORE | 2008 | 2013 | Mandatory | 22 | +2 |
| TEXAS RECOMMENDED HIGH SCHOOL PROGRAM | 2003/2006* | 2008/2011 | Default | 26 | +4 |
| WASHINGTON CORE 24 | 2008 | 2013/2016** | Default | 24 | +5 |

*The Texas RHSP was first established as the default diploma requirement for all students in 2003 - impacting the class of 2008 - and included three math credits through Algebra II. In 2006-impacting the class of 2011-a fourth year of math was added to RHSP.
** The full Washington Core 24 requirements will be in place in 2016, but the Algebra II requirement will be phased in for the class of 2013.

## STATE COLLEGE- AND CAREER-READY HIGH SCHOOL GRADUATION REQUIREMENTS

|  | 3 ALABAMA | ARIZONA | ARKANSAS | DELAWARE | DISTRICT OF COLUMBIA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| English | 4 | 4 | 4.5 | 4 | 4 |
|  | - English 9-12 | - Including 0.5 incorporating the principles of speech and debate | - English 9-12 <br> - 0.5 Oral Communication |  |  |
| Mathematics | 4 | 4 | 4 | 4 | 4 |
|  | - Algebra I <br> - Geometry <br> - Algebra II with Trigonometry <br> - 1 beyond Algebra II | - Algebral <br> - Geometry <br> - Algebra ll or its equivalent <br> - fourth course covering significant math content | - Algebra I <br> - Geometry <br> - Algebra ll or their equivalents <br> - 1 beyond Algebra II | - Algebra I <br> - Geometry <br> - Algebra II | - Algebral (by ninth grade) <br> - Geometry <br> - Algebra II |
| Science | 4 | 3 | 3 | 3 | 4 |
|  | - 1 Biology <br> - 1 Physical Science <br> - 2 approved science electives | - Aligned with Arizona Instrument to Measure Standards | - 3 lab-based physical sciences from Biology, Chemistry, Physics, Applied Biology / Chemistry, Principles of Technology | - 3 lab sciences from Biology, Chemistry, Physics, Earth Science or another integrated science | - 3 lab sciences |
|  | 4 | 3 | 3 | 3 |  |
| Social Studies | - 1 World History to 1500 <br> - 1 U.S. History to 1877 <br> - 1 U.S. History from 1877Present <br> - 1 American Government/Economics | - 1 American History, including AZ History <br> - 1 World History/Geography <br> - 0.5 American Government including AZ Government <br> - 0.5 Economics | - 1 American History <br> - 1 World History <br> - 1 Civics / US Government | - Including History, Geography, Civics and Economics | - World History 1 <br> - World History 2 <br> - US History <br> - US Government \& DC History |
|  | 6.5 | 8 | 6.5 | 8.5 | 6.5 |
| Electives | - 2 Foreign Language <br> - 0.5 Arts Education <br> - 0.5 Computer Applications <br> - 3.5 from Foreign Languages, Arts, PE, Wellness Ed, CTE and Driver Ed | - 1 Fine Arts OR Career/Tech <br> - 7 electives | - 0.5 Fine Arts <br> - 6 "Career Focus" | - 2 Foreign Language <br> - 3 "Career-Academic Pathway" courses <br> - 3.5 electives | - 2 World Language <br> - 0.5 Art <br> - 0.5 Music <br> - 2 CTE or College-level courses <br> - 1.5 electives |
| Other | - 1.5 PE/Health |  | - 1 PE/Health \& Safety | - 1.5 PE/Health | - 1.5 PE/Health <br> - 100 hours of community service <br> - Theses in $11^{\text {th }}$ and $12^{\text {th }}$ grades |
| Total Required | 24 | 22 | 22 | 24 | 24 |

## HIGH SCHOOL GRADUATION REQUIREMENTS

|  | GEORGIA | InDIANA | KENTUCKY | + ${ }^{\text {a }}$ MICHIGAN | MINNESOTA. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 4 | 4 | 4 | 4 |
| English | - 1 American Literature \& Composition <br> - 19 th grade Literature \& Composition | - Including literature, speech \& composition | - Including reading, writing, speaking, listening, observing, inquiry, conventions, analysis, and using technology as a communication tool | - English 9-12 |  |
|  | 4 | 3 | 3 | 4 | 3 |
| Mathematics | - Mathematics 1 <br> - Mathematics 2 <br> - Mathematics 3 or their equivalents | - Algebra I <br> - Geometry <br> - Algebra II <br> - Students may also take Integrated Math I-III <br> - Math or Physics required in junior or senior year | - Algebra I <br> - Geometry <br> - Algebra II <br> - Students must be engaged in math all four years of high school | - Algebra I <br> - Geometry <br> - Algebra II | - Geometry <br> - Algebra II <br> - Probability / Statistics <br> - Algebra I in $8^{\text {th }}$ grade |
|  | 4 | 3 | 3 | 3 | 3 |
| Science | - 1 Biology <br> - 1 Physical Science or Physics <br> - 1 Chemistry, Earth Systems, Environmental Science or an AP/IB] | - 1 Biology <br> - 1 Chemistry, Physics, or Integrated ChemistryPhysics <br> - Math or Physics required in junior or senior year | - 3 lab-based courses | - 1 Biology <br> - 1 Chemistry or Physics | - 1 Biology <br> - 1 Chemistry or Physics |
|  | 3 | 3 | 3 | 3 | 3.5 |
| Social Studies | - 1 U.S. History <br> - 1 World History <br> - 0.5 American Government / Civics <br> - 0.5 Economics | - 1 U.S. History <br> - 1 World History / Civilization or Geography <br> -0.5 U.S. Government <br> - 0.5 Economics | - Including U.S. History, Geography, Economics Government / Civics, and Culture/Societies | - 1 U.S. History and Geography <br> - 1 World History and Geography <br> - 0.5 Civics <br> - 0.5 Economics | - 3 encompassing U.S. History, Geography, World History and Government/ Citizenship <br> - 0.5 Economics |
|  | 7 | 5.5 | 8 | 3 | 8 |
| Electives | - 3 from Career/Tech, Fine Arts, Modern Languages/Latin <br> - 4 electives | - 2.5 from Fine Arts, Career/Tech and World Languages <br> - 3 "Career-Academic Sequence" recommended | - 1 Visual or Performing Arts <br> - 7 electives, four within students' academic or career interests, based on students' Individualized Learning Plans | - 2 Foreign Language <br> - 1 Visual Arts | - 1 Arts <br> - 7 electives |
| Other | - 1 PE/Health | -1.5 PE/Health | -1 PE/Health | - 1 PE/Health <br> - Online learning experience |  |
| Total Required | 23 | 20 | 22 | 18 | 21.5 |

Updated July, 2009

## STATE COLLEGE- AND CAREER-READY HIGH SCHOOL GRADUATION REQUIREMENTS

|  | MISSISSIPPI | NEW MEXICO | NEW YORK | NORTH CAROLINA | + ${ }^{\text {OHIO}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| English | 4 | 4 | 4 | 4 | 4 |
|  |  | - Major emphasis on grammar, nonfiction writing and literature |  | - English I-IV |  |
| Mathematics | 4 | 4 | 3 | 4 | 4 |
|  | - Algebra I <br> - Two courses above Algebra 1 | - Including one course equal to or higher than Algebra II | - All students must pass course and end-of-course test in "Integrated Algebra" that combines Algebra I and II | - Algebral <br> - Geometry <br> - Algebra II <br> - Students may also take Integrated Math 1-III <br> - A fourth year of math aligned with student's post high school plans | - Including Algebra II or its equivalent |
| Science | 4 | 3 | 3 | 3 | 3 |
|  | - At least one lab-based course | - At least two lab-based courses | - 1 Physical Science <br> - 1 Life Science | - 1 Biology <br> - 1 Physical Science <br> - 1 Earth/Environmental Science | - 1 Physical Science <br> - 1 Biology <br> - An additional advanced lab-based course |
| Social Studies | 4 | 3.5 | 4 | 3 | 3 |
|  | - 1 World History <br> - 1 U.S. History <br> - 0.5 Geography <br> -0.5 U.S. Government <br> -0.5 Economics <br> - 0.5 Mississippi Studies | - 3 including U.S. History and Geography, World History and Geography, Government and Economics <br> - 0.5 New Mexico History | - 1 U.S. History <br> - 0.5 Government Participation <br> - 0.5 Economics | - 1 World History <br> - 1 US History <br> - 1 Civics and Economics | - 0.5 American Hiștory <br> - 0.5. American Government |
| Electives | 7.5 | 8.5 | 5.5 | 6 | 5 |
|  | - 1 Fine Arts <br> - 1 Computer Discovery OR 0.5 Keyboarding and 0.5 Computer Applications <br> - 5.5 electives | - 1 Foreign Language OR Career Cluster or Work Readiness <br> - 7.5 electives | - 1 Foreign Language (or demonstrated proficiency) <br> -1. Fine Arts <br> - 3.5 electives | - 6 electives (at least two of which must be any combination of Career and Technical Education, Arts or Second Language) | - 5 from Foreign Language, Fine Art, Business, Career-Tech Education, Family and Consumer Sciences, Technology, Agricultural Education, or other academic courses |
| Other | - 0.5 PE/Health | - 1 PE <br> - At least 1 credit in AP, honors, dual credit or distance learning | - 2.5 PE/Health | - 1 PE/Health | -1 PE/Health |
| Total Required | 24 | 24 | 22 | 21 | 20 |

## STATE COLLEGE- AND CAREER-READY HIGH SCHOOL GRADUATION REQUIREMENTS



## Grade Level Florida Students Typically Take Algebra I, Geometry, and Biology

| Grade | Total <br> Students <br> Enrolled ${ }^{1}$ | Students <br> Taking <br> Algebral ${ }^{2}$ | Percent of <br> Enrollees <br> Taking <br> Algebral | Students <br> Taking <br> Geometry ${ }^{3}$ | Percent of <br> Enrollees <br> Taking Geometry | Students Taking Biology ${ }^{4}$ | Percent of <br> Enrollees <br> Taking <br> Biology |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07 | 225,834 | 13,648 | 6\% | 87 | 0\% | 17 | 0\% |
| 08 | 233,424 | 63,178 | 27\% | 8,834 | 4\% | 1,678 | 1\% |
| 09 | 250,618 | 148,799 | 59\% | 52,690 | 21\% | 82,815 | 33\% |
| 10 | 244,761 | 23,280 | 10\% | 115,377 | 47\% | 112,311 | 46\% |
| 11 | 223,683 | 8,490 | 4\% | 45,030 | 20\% | 27,118 | 12\% |
| 12 | 210,522 | 4,825 | 2\% | 16,927 | 8\% | 11,050 | 5\% |

In Florida:

- Students typically take Algebra I $9^{\text {th }}$ Grade; though many $8^{\text {th }}$ graders take Algebra I, as well.
- In 2008-09, 59\% of $9^{\text {th }}$ graders were enrolled in Algebra 1
- In 2008-09, 27\% of $8^{\text {th }}$ graders were enrolled in Algebra I
- Students typically take Geometry in $10^{\text {th }}$ Grade; though many $9^{\text {th }}$ and $11^{\text {th }}$ graders take Geometry, as well.
- In 2008-09, 47\% of $10^{\text {th }}$ graders were enrolled in Geometry
- In 2008-09, $21 \%$ of $9^{\text {th }}$ graders and $20 \%$ off $11^{\text {th }}$ graders were enrolled in Geometry.
- Students typically take Biology in $10^{\text {th }}$ Grade; though many $9^{\text {th }}$ graders take Biology, as well.
- In 2008-09, $46 \%$ of $10^{\text {th }}$ graders were enrolled in Geometry
- In 2008-09, 33\% of $9^{\text {th }}$ graders were enrolled in Geometry


## Notes

'Total enrollment includes all surveys for 2008-09 (preliminary 2008-09 Survey 5 enrollments).
${ }^{2}$ Algebra I Courses and their equivalents
1200310-Algebra I
1200370 - Algebra IA and 1200380 - Algebra IB
1205400 - Applied Mathematics I and 1205410 - Applied Mathematics II
1207310 - Integrated Mathematics I and 1207320 - Integrated Mathematics II
1200500 - Pacesetter Mathematics I
1209810 - pre-AICE Math 1
${ }^{3}$ Geometry Courses and their equivalents
1206310-Geometry
1206320 - Geometry Honors
1206300 - Informal Geometry
1206330 - Analytical Geometry
1206800 - Analytical Geometry IB
${ }^{4}$ Biology Courses and their equivalents
2000310 - Biology I
2000320 - Biology I Honors
2000321 - AICE Biology I
2000340 - AP Biology
2000800 - Biology I-Pre IB
2002440 - Integrated Science 3
2002450 - Integrated Science 3 Honors

