



Curriculum Update

George R. Rislov
Managing Director, Division of Curriculum
Texas Education Agency
512-463-9581
grislov@tea.state.tx.us

New Graduation Requirements

HB1 Requirements

Recent SBOE Actions

(Rules not effective until 20 days after filing)

HB1 adds the following:

TEC 28.025(b-1) The State Board of Education by rule shall require that:

(1) the curriculum requirements for the recommended and advanced high school programs under Subsection (a) include a requirement that students successfully complete **four courses in each subject of the foundation curriculum** under Section 28.002(a)(1); and

HB1 adds the following:

TEC 28.025(b-1) The State Board of Education by rule shall require that:

(2) one or more courses offered in the required curriculum for the recommended and advanced high school programs include a research writing component.

What this means:

- 1. Since the DAP and RHSP already required four courses in English language arts and social studies, students must now satisfy a new requirement for a fourth course in mathematics and science.**
- 2. Research writing must be explicitly taught in an appropriate course.**

Current RHSP requires 24 credits for graduation:

- English I, II, III, IV
- World Geography, World History, US History, US Govt./Economics
- Algebra I, Algebra II, Geometry
- 3 credits of science, including Biology, Chemistry, Physics, IPC, PT I, APs and IBs
- 1 credit each of fine arts, Technology Applications
- .5 credit of Communication Applications, Health
- 2 credits of a foreign language
- 1.5 credits of PE
- 3.5 elective credits

New RHSP requires 26 credits

Two credits are added, one each
in mathematics, science

Old and New RHSP– Math

Old:

- 3 credits, including Algebra I, Algebra II, and Geometry
- HS credit for courses taken in MS
- No prescribed sequence

New:

- 4 credits. Three of the credits must be Alg. I, Alg. II, and Geometry
- 4th credit may be:
 - **Precalculus**
 - **APs, IBs**
 - **AP Computer Science**
 - **Mathematical Models with Applications**
 - **Independent Study**
 - **College Courses**

For students who select Mathematical Models with Applications:

- Algebra II is their terminal course
- They may not take Mathematical Models with Applications after taking Algebra II
- They may take the two courses concurrently
- The intent of the rule is that all students should have a rigorous math course in their senior year

For all students:

- The intent of the rule is that all students should have a rigorous math course in their senior year
- Students may continue to take mathematics courses at the middle school and receive high school credit

Complete list of approved math courses:

- **Mathematical Models with Applications**
- **Precalculus**
- **Independent Study in Mathematics**
- **Advanced Placement Statistics**
- **Advanced Placement Calculus AB**
- **Advanced Placement Calculus BC**
- **IB Mathematical Studies**
- **IB Mathematics Standard Level**
- **IB Mathematics Higher Level**
- **IB Advanced Mathematics Standard Level**
- **AP Computer Science**
- **Concurrent Enrollment in College Courses**

Old and New RHSP- Science

Old: 3 credits,

- one of which must be Biology (and /or AP/IB)
- two of which are selected from
 - IPC
 - Chemistry, IB or AP Chemistry
 - Physics, AP or IB Physics, or Principles of Technology I

• New: 4 credits,

- One of which must be Biology (and /or AP/IB)
- Three of which are selected from a list of options ***that will include IPC until SY 2012-2013***

New RHSP- Science

When IPC is phased out, all students will select

- **One credit from Biology, AP or IB Biology**
- **Two credits from**
 - **Chemistry, IB or AP Chemistry**
 - **Physics, AP or IB Physics, or Principles of Technology I**
- **A fourth credit from the following list:**

New RHSP- Science, 4th yr

- Biology
- Chemistry
- Physics
- Astronomy
- Aquatic Science
- Environmental Systems
- **Earth and Space Science**
- Advanced Placement Biology
- Advanced Placement Chemistry
- Advanced Placement Physics B
- Advanced Placement Physics C
- Advanced Placement Environmental Science
- International Baccalaureate Biology
- International Baccalaureate Chemistry
- International Baccalaureate Physics
- International Baccalaureate Environmental Systems

The following health science technology education courses:

- Scientific Research and Design
- Anatomy and Physiology of Human Systems
- Medical Microbiology and Pathophysiology

The following technology education/industrial technology education courses:

- Principles of Technology I
- Principles of Technology II
- **Engineering**

Concurrent enrollment in college courses

The SBOE has directed the TEA to write new TEKS for the courses in **red**

What does the phase-out of IPC mean?

- IPC will no longer satisfy the science requirements in the RHSP after SY 2012-2013
- Students on the RHSP and DAP could continue to take the course for state elective credit
- As of now, it remains an option for students on the minimum plan

What does the phase-out of IPC mean?

- IPC will no longer satisfy the science requirements in the DAP, effective SY 2007-2008— no phase-out

DAP- Old and New

Old:

- **24 credits**
- **3 credits of mathematics, consisting of Algebra I, Algebra II, and Geometry**

New:

- 26 credits
- 4 credits must consist of Algebra I, Algebra II, and Geometry and an additional SBOE-approved mathematics course for which Algebra II is a prerequisite, which could include
 - Precalculus
 - Independent Study in Mathematics (for example, when used to offer Calculus)
 - Advanced Placement (AP) Statistics
 - Advanced Placement (AP) Calculus AB
 - Advanced Placement (AP) Calculus BC
 - IB Mathematical Studies Subsidiary Level
 - IB Mathematical Methods Subsidiary Level
 - IB Mathematics Higher Level
 - IB Advanced Mathematics Subsidiary Level
 - Concurrent Enrollment in College Courses

DAP- Old and New

Old:

3 credits of science. One credit must be a biology credit (Biology, Advanced Placement (AP) Biology, or International Baccalaureate (IB) Biology). Students must choose the remaining two credits from the following areas. Not more than one credit may be chosen from each of the areas to satisfy this requirement. Students on the Recommended High School Program are encouraged to take courses in biology, chemistry, and physics to complete the science requirements.

Integrated Physics and Chemistry (IPC);

Chemistry, AP Chemistry, or IB Chemistry; and

Physics, Principles of Technology I, AP Physics, or IB Physics.

New:

4 credits of science, which must consist of a biology credit (Biology, Advanced Placement (AP) Biology, or International Baccalaureate (IB) Biology), a chemistry credit (Chemistry, AP Chemistry, or IB Chemistry), a physics credit (Physics, AP Physics, or IB Physics), and an additional approved laboratory-based science course. (*Note the deletion of Principles of Technology here*). After successful completion of a biology course, a chemistry course, and a physics course, a student may select the fourth required credit from any of the following lab-based courses:

Complete list of science options for 4th year DAP

- (A) **Earth and Space Science;**
- (B) **Environmental Systems;**
- (C) **Aquatic Science;**
- (D) **Astronomy;**
- (E) **Anatomy and Physiology of Human Systems;**
- (F) **AP Biology;**
- (G) **IB Biology**
- (H) **AP Chemistry;**
- (I) **IB Chemistry;**
- (J) **AP Physics;**
- (K) **IB Physics;**
- (L) **AP Environmental Science;**
- (M) **IB Environmental Systems;**
- (N) **Scientific Research and Design; and**
- (O) **Engineering.**

What about the Minimum Plan?

The Minimum plan was not changed by the SBOE but will be discussed at the next meeting.

What about the Minimum Plan?

A student entering Grade 9 in the 2007-2008 school year and thereafter shall enroll in the courses necessary to complete the curriculum requirements for the **recommended high school program** specified in §74.63 of this title (relating to Recommended High School Program) or the **advanced program** specified in §74.64 of this title (relating to Distinguished Achievement High School Program-- Advanced High School Program)...

What about the Minimum Plan?

...unless the student, the student's parent or other persons standing in parental relation to the student, and a school counselor or school administrator agree that the student should be permitted to take courses under the minimum high school program specified in §74.62 of this title (relating to Minimum High School Program).

HB1 adds the following:

- Sec. 28.009. COLLEGE CREDIT PROGRAM. (a) Each school district shall implement a program under which students may earn the equivalent of at least 12 semester credit hours of college credit in high school. On request, a public institution of higher education in this state shall assist a school district in developing and implementing the program.

HB1 adds the following:

- Sec. 28.009. COLLEGE CREDIT PROGRAM. (a-1) Not later than the fall 2008 semester, each school district shall implement a program that meets the requirements prescribed by Subsection (a). This subsection expires June 1, 2009.

Concurrent Enrollment in College Courses

- HB1 requires all schools to offer students the equivalent of 12 semester hours of college credit while in high school
- Dual credit partnerships are subject to THECB rules regarding articulation agreements
- Courses taken at IHEs for high school credit must meet and exceed the TEKS for the courses they replace

**For assistance,
contact**

**George R. Rislov
Managing Director,
TEA Division of Curriculum
1701 N. Congress
Austin TX 78701-1494
512-463-9581
grislov@tea.state.tx.us**

