



# Texas Regional Collaboratives STEM Certification Program

## **TExES Preparation Materials**

As you began to prepare to take the TExES examination please refer to the following TExES examination preparations.

## **ETS TExES Preparation Manuals**

**Description:** The ETS TExES preparation manuals provide a detailed breakdown of the content domains found on each exam. These, along with the example questions, can be used to determine what areas you should focus your studying on. When using other examination preparations focus on the lessons that match the domains listed for the test. If you have already taken the TExES look at your score breakdown to see what domains you missed the most questions in and view lesson based on those domains.

**Website:** [http://www.texas.ets.org/prepMaterials/#Preparation\\_Manual\\_Downloads](http://www.texas.ets.org/prepMaterials/#Preparation_Manual_Downloads)

**Cost:** Free

**Targeted Disciplines:** Each TExES examination has its own preparation manual

**Resources:** Taking the TExES Test and Receiving Scores  
Test Framework (Including Weights of Each Domain)  
Item Formats  
Sample Items  
Answer Key  
Preparation Resources

## **TAMU System: TExES Certification Exam Review for Teachers (T-CERT)**

**Description:** The T-CERT review modules are designed specifically for the TExES examinations. These modules breakdown the test into domains and then each domain is broken down into competencies.

**Website:** <http://pact.tarleton.edu/tcert/>

**Cost:** T-CERT is free to all those who have been accepted to the STEM Certification Program. You will receive information on how to access T-CERT once you are accepted to the STEM Certification Program.

**Targeted Disciplines:** Science 4-8  
Math 4-8  
Science 8-12  
Math 8-12

**Resources:** Review modules, breakdown of domains and competencies within each domain  
Example problems with answers  
Practice Quiz  
Explanations for correct answers on quizzes  
Live reviews offered periodically

## **Brightstorm**

**Description:** Free website which offers video lessons for some secondary math and science topics.

**Website:** <http://www.brightstorm.com/>

**Cost:** Free

**Targeted Disciplines:**

Algebra 1 & 2	Calculus
Geometry	Biology
Trigonometry	Chemistry
Precalculus	Physics

**Resources:** Video lessons  
Math Problem Checker  
Sample Math and Science Problems

## **iTunes University**

**Description:** iTunes University offers a variety of video and audio classes. Most of the classes are offered through universities and are lead by university professors.

**Website:** <http://www.apple.com/education/itunes-u/>

**Cost:** Free

**Targeted Disciplines:** All secondary math and science

**Resources:** Video lessons  
Lab simulations

## **Kahn Academy**

**Description:** The Khan Academy is a not-for-profit 501(c)(3) with the mission of providing a world-class education to anyone, anywhere. Khan Academy complements Salman's ever-growing library with user-paced exercises--developed as an open source project--allowing the Khan Academy to become the free classroom for the World.

**Website:** <http://www.khanacademy.org/>

**Cost:** Free

**Targeted Disciplines:** All secondary math and science

**Resources:** Subjects broken down into specific topics  
Downloadable video lessons  
Web application available for user-paced practice

## **Merlot: Multimedia Educational Resource for Learning and Online Teaching**

**Description:** A resource of peer reviewed online teaching and learning materials.

**Website:** <http://www.merlot.org/merlot/index.htm>

**Cost:** Free

**Targeted Disciplines:** Biology  
Chemistry  
Physics  
Secondary Math

**Resources:** Tutorials  
Animations  
Simulations  
Quizzes/ tests  
Drills/ practice

## **NROC - National Repository of On-line Courses**

**Description:** A library of high-quality online course content for students and faculty in higher education, high school and Advanced Placement.

**Website:** <http://www.montereyinstitute.org/nroc/>

**Cost:** Free

**Targeted Disciplines:** Biology I and II for AP  
Physics B I, II, C I, II for AP  
Introductory Physics I, II College Foundations  
General Physics I, II College Foundations  
Calculus  
Algebra

**Resources:** Readings (need outside books)  
Lessons  
Assignments  
Assessments/ quizzes with answer key  
Example problems  
Study sheets  
Outline of key concepts  
Animations  
Lab simulations