

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

Technical Assistance Document

Prepared by

**Virginia Department of Education
Division of Instruction**

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**Sample Courses of Study that Satisfy
Standard Diploma Graduation Requirements for Students in Transition Years
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)
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Table of Contents

Introduction.....	2
<i>Academic Concentrations</i>	
Student 1 – Choice of SOL Tests (Option A)	5
Student 2 – Choice of SOL Tests (Option B)	6
Student 3 – Choice of SOL tests (Option C).....	7
Student 4 – SOL Tests with a Mathematics Concentration.....	8
Student 5 – SOL Tests with a Science Concentration	9
Student 6 – SOL Tests with a History and Social Science Concentration.....	10
Student 7 – Combination of SOL Tests and SAT II Tests.....	11
Student 8 – Combination of SOL Tests and ACT Tests	12
Student 9 – Combination of SOL Tests and Additional Tests	13
Student 10 – Limited English Proficient TOEFL Candidate	14
Student 11 – International Baccalaureate (IB) Student	15
Student 12 – Advanced Placement (AP) Test Candidate Emphasis on Mathematics and Science	17
Student 13 – Advanced Placement (AP) Test Candidate Emphasis on English and History and Social Science	18
<i>Career and Technical Education Concentrations</i>	
Agricultural Education Concentration.....	21
Business and Information Technology Concentration.....	30
Family and Consumer Sciences Concentration.....	45
Health and Medical Sciences Concentration.....	53
Marketing Education Concentration.....	59
Technology Education Concentration.....	68
Trade and Industry Education Concentration.....	72

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Introduction

- ❖ Beginning with the ninth-grade class of 2000-2001, students who wish to receive a Standard Diploma must earn 22 standard units of credit and 6 verified units of credit distributed among content areas and courses as prescribed in 8 VAC 20-131-50.B of *Regulations Establishing Standards for Accrediting Public Schools in Virginia*.
- ❖ According to provisions in *Regulations Establishing Standards for Accrediting Public Schools in Virginia*, a standard unit of credit is based on a minimum of 140 clock hours of instruction and successful completion of the requirements of the course. (8 VAC 20-131-110.A)
- ❖ A verified unit of credit is awarded when a student earns a standard unit of credit for a course, and
 - earns a passing score on the end-of-course SOL test for that course,
 - earns a passing score on a board-approved “additional” test that verifies the student’s achievement in that course as described in 8 VAC 20-131-110. *Standard and verified units of credit*, or
 - earns a locally awarded verified credit.
(<http://www.pen.k12.va.us/VDOE/suptsmemos/2002/adm052.html>)
- ❖ In addition to SOL courses, verified credits may be earned for board-approved courses in computer science, technology, or other areas as prescribed by the Board of Education in 8 VAC 20-131-110.B. (8 VAC 20-131-50.B.4, Footnote 5 and C.2, Footnote 5)
- ❖ As part of an ongoing process, the Board of Education approves “additional” tests and course combinations that may be used to earn verified credit in SOL courses.
8 VAC 20-131-110. Standard and verified units of credit.
B...Such additional tests, which enable students to earn verified units of credit, must at a minimum, meet the following criteria:
 - The test must be standardized and graded independently of the school or school division in which the test is given;
 - The test must be knowledge-based;
 - The test must be administered on a multi-state or international basis; and
 - To be counted in a specific academic area, the test must measure content that incorporates or exceeds the SOL content in the course for which verified credit is given.*...The Board will set the score that must be achieved to earn a verified unit of credit on the additional test options.*

- ❖ During a transition period applicable only to the ninth-grade classes of 2000-2001, 2001-2002, and 2002-2003, for a Standard Diploma, students shall earn the standard units of credit described in 8 VAC 20-131-50.B and the following number of verified units of credit:
 - Two verified units of credit in English
 - Four additional verified units of credit of the student's own choosing
 - These four units may be in SOL courses or courses in computer science, technology, or other areas as prescribed by the Board of Education.

- ❖ During this transition period, students have a wide variety of options available to earn the four additional verified units of credit of their own choosing. The four student selected verified credits have not been prescribed by content. Thus, verified credits may be concentrated in one or two disciplines or distributed over a variety of subject areas. Also, students may combine SOL tests with other approved substitute assessments or certifications in mathematics, science, history and social science, computer science, technology, and career and technical education. In addition, students may be eligible to earn locally verified credits in science and history and social sciences.

The following pages contain *some examples* of course schedules that students might use to satisfy the requirements. These models are *examples only* and do not exhaust all the possibilities of course combinations that can be used to earn a Standard Diploma. Students should work closely with their parents, guidance counselors, and other school officials to develop a course of study that meets their needs and interests as well as the graduation requirements.

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**SAMPLE COURSES OF STUDY THAT
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**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

Academic Concentrations

**Standard Diploma Sample Course of Study for Students in Transition Years
(Ninth graders in 2000-01, 2001-02, and 2002-03)
Academic Concentration**

Student 1 – Choice of SOL Tests (Option A)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL Writing	1
	English 10	1	SOL English Reading/ Literature/Research	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Science (3 standard credits)	World History and Geography Part I OR World History and Geography Part II OR World Geography	1	SOL World History I OR SOL World History II OR World Geography	1*
	Virginia and U.S. History	1	SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Art II	1		
	Journalism	1		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.*			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

Student 2 – Choice of SOL Tests (Option B)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL Writing	1
	English 10	1	SOL English Reading/ Literature/Research	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Geometry, Part I (elective)	Credit awarded below		
	Geometry, Part II	1	SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Principles of Technology I (elective)	Credit awarded below		
	Principles of Technology II	1		
History and Social Science (3 standard credits)	World History and Geography Part I OR World History and Geography Part II OR World Geography	1	SOL World History I OR SOL World History II OR World Geography	1*
	Virginia and U.S. History	1	SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Geometry, Part I	1		
	Principles of Technology I	1		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.*			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

Student 3 – Choice of SOL Tests (Option C)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL Writing	1
	English 10	1	SOL English Reading/ Literature/Research	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Principles of Technology I (elective)	Credit awarded below		
	Principles of Technology II	1		
History and Social Science (3 standard credits)	World History and Geography Part I OR World History and Geography Part II OR World Geography	1	SOL World History I OR SOL World History II OR World Geography	1*
	Virginia and U.S. History	1	SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Geometry, Part I	1		
	Principles of Technology I	1		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.*			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

Student 4 – SOL Tests with a Mathematics Concentration

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL Writing	1
	English 10	1	SOL English Reading/ Literature/Research	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1
	Geometry	1	SOL Geometry	1
	Algebra II	1	SOL Algebra II	1
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1
	Biology	1		
	Chemistry	1		
History and Social Science (3 standard credits)	World History and Geography Part I	1		
	Virginia and U.S. History	1		
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Keyboarding Applications	1		
	Computer Applications	1		
	Computer Information Systems	1		
	Advanced Computer Informations Systems	1		
	Programming	1		
	Advanced Programming	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice. This example might highlight a student who has a strong interest in mathematics.			
TOTAL		22		6

Student 5 – SOL Tests with a Science Concentration

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL Writing	1
	English 10	1	SOL English Reading/ Literature/Research	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1
	Geometry	1		
	Algebra II	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1
	Biology	1	SOL Biology	1
	Chemistry	1	SOL Chemistry	1
History and Social Science (3 standard credits)	World History and Geography Part I	1		
	Virginia and U.S. History	1		
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Journalism	1		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
Technical Drawing	1			
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice. This example might highlight a student who has a strong interest in science.			
TOTAL		22		6

Student 6– SOL Tests with a History and Social Science Concentration

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL Writing	1
	English 10	1	SOL English Reading/ Research/Literature	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1		
	Geometry	1		
	Algebra II	1		
Laboratory Science (3 standard credits)	Earth Science	1		
	Biology	1		
	Chemistry	1		
History and Social Science (3 standard credits)	World History and Geography Part I	1	SOL World History I	1
	World History and Geography Part II	1	SOL World History II	1
	World Geography	1	SOL World Geography	1
	Virginia and U.S. History	1	SOL Va. and U.S. History	1
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	World History and Geography Part II	Credit awarded above		
	World Geography	Credit awarded above		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice. This example might highlight a student who has a strong interest in history and social science.			
TOTAL		22		6

Student 7 – Combination of SOL Tests and SAT II Tests

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL English Reading/ Literature/Research	1
	English 10	1		
	English 11	1	SAT II Writing OR SOL English Writing	1
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1	SAT II Math IC** OR SAT II Math IIC** OR SOL Algebra I	1*
	Geometry	1	SAT II Math IC** OR SAT II Math IIC** OR SOL Geometry	1*
	Algebra II	1	SAT II Math IC** OR SAT II Math IIC** OR SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SAT II Biology OR SOL Biology	1*
	Chemistry	1	SAT II Chemistry OR SOL Chemistry	1*
History and Social Science (3 standard credits)	World History and Geography Part I	1	SAT II World History OR SOL World History I	1*
	Virginia and U.S. History	1	SAT II American History OR SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Journalism	1		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
	Technical Drawing	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.* This example might highlight a student who combines SOL tests with SAT II tests to earn the 4 student selected verified credits.			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

**The SAT II Math IC test and the SAT II Math IIC test may substitute as an “additional assessment” only once, for *either* Algebra I or Geometry or Algebra II.

Student 8 – Combination of SOL Tests and ACT Tests

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	ACT: Writing Subtest OR SOL English Writing	1
	English 10	1		ACT: Reading Subtest OR SOL English Reading/ Literature/Research
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	ACT: Mathematics Subtest** OR SOL Algebra I	1*
	Geometry	1	ACT: Mathematics Subtest** OR SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	ACT: Science Reasoning Subtest** OR SOL Biology	1*
	Chemistry	1	ACT: Science Reasoning Subtest** OR SOL Chemistry	1*
History and Social Science (3 standard credits)	World History and Geography Part I OR World History and Geography Part II OR World Geography	1	SOL World History I OR SOL World History II OR SOL World Geography	1*
	Virginia and U.S. History	1	SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Journalism	1		
	Spanish I	1		
	Spanish II	1		
	Intermediate Band	1		
	Advanced Band	1		
	Technical Drawing	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.* This example might highlight a student who combines SOL tests with ACT tests to earn the 4 student selected verified credits.			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

**The ACT: Mathematics Subtest may be substituted for *either* the Algebra I SOL test *or* the Geometry SOL test, but not for both. The ACT: Science Reasoning Subtest may be substituted for *either* the Biology SOL test *or* the Chemistry SOL test, but not for both.

Student 9 – Combination of SOL Tests and Additional Tests

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL English Reading/ Literature/Research	1
	English 10	1		WorkKeys: Writing OR SOL Writing
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry, Part I	1		
	Geometry, Part II	1	SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Science (3 standard credits)	World History and Geography Part I	1	SOL World History I	1*
	Virginia and U.S. History	1	CLEP History of U.S. I and II OR SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Keyboarding Applications	1		
	Computer Applications	1		
	Computer Information Systems	1		
	Advanced Computer Information Systems	1		
	Programming	1		
	Advanced Programming	1	CLEP Information Systems and Computer Applications	1*
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.* This example might highlight a student who combines SOL tests with WorkKeys and CLEP tests to earn the 4 student selected verified credits.			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

Student 10 – Limited English Proficient TOEFL Candidate

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	Test of English as a Foreign Language (TOEFL)** OR SOL English Reading/Literature/Research	1
	English 10	1		
	English 11	1	Test of English as a Foreign Language (TOEFL)** OR SOL English Writing	1
	English 12	1		
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II (elective)	Credit awarded below	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Science (3 standard credits)	World History and Geography Part I	1	SOL World History I	1*
	Virginia and U.S. History	1	SOL Va. and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Art II	1		
	ESL I	1		
	ESL II	1		
	ESL III	1		
	Beginning Chorus	1		
	Algebra II	1		
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.* This example might highlight a limited English proficient student who has achieved an acceptable score on the TOEFL.			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

**The TOEFL may substitute for *either* the English Reading/Literature/Research SOL test *or* the English Writing SOL test, but not for both.

Student 11 – International Baccalaureate (IB) Student

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	Pre-IB English 9	1	IB English (HL)** OR SOL English Reading/ Literature/Research	1
	Pre-IB English 10	1		
	IB English 11	1	IB English (HL)** OR SOL English Writing	1
	IB English 12	1		
Mathematics (3 standard credits)	Algebra I	1	IB Math Studies (SL)** OR SOL Algebra I	1*
	Pre-IB Geometry	1	IB Math Studies (SL)** OR SOL Geometry	1*
	Pre-IB Algebra II/ Trigonometry	1	IB Math Studies (SL)** OR SOL Algebra II	1*
Laboratory Science (3 standard credits)	Pre-IB Earth Science	1	SOL Earth Science	1*
	Pre-IB Chemistry	1	SOL Chemistry	1*
	IB Biology (SL)	1	IB Biology (SL) OR SOL Biology	1*
History and Social Science (3 standard credits)	World History and Geography Part I	1	SOL World History I	1*
	Pre-IB U.S. & Comparative Government & Politics	1		
	IB History of the Americas Part I (emphasis on U.S. History)	1	IB History of the Americas (HL) OR SOL Va & US History	1*
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	French I	1		
	Pre-IB French II	1		
	Pre-IB French III	1		
	IB French IV	1		
	IB Math Studies (SL)	1	IB Math Studies (SL)** (see above)	Credit awarded above
	IB History of the Americas Part 2 (HL)	1	IB History of the Americas (HL) (see above)	Credit awarded above
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.* This example shows students taking and passing selected courses and tests as part of an IB program.			
TOTAL		22***		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

** The IB English (HL) test may substitute for *either* the English Reading/Literature/Research SOL test *or* the English Writing SOL test, but not for both. The IB Math Studies (SL) test may substitute as an “additional assessment” only once, for *either* Algebra I *or* Geometry *or* Algebra II.

***A student who earns only 22 standard credits is not likely to complete sufficient courses for the IB Diploma; however, some schools allow student to take certain IB courses and exams for individual IB course certificates.

Student 12 – Advanced Placement (AP) Test Candidate
Emphasis on Mathematics and Science

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL English Reading/ Literature/Research	1
	English 10	1		1
	English 11	1	SOL English Writing	1
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1	AP Calculus** OR SOL Algebra I	1*
	Geometry	1	AP Calculus** OR SOL Geometry	1*
	Algebra II/Trigonometry	1	AP Calculus** OR SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	AP Environmental Science OR SOL Earth Science	1*
	Biology	1	AP Biology OR SOL Biology	1*
	Chemistry	1	AP Chemistry OR SOL Chemistry	1*
History and Social Science (3 standard credits)	World History and Geography Part I	1		
	Virginia and U.S. History	1		
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Art II	1		
	Mathematical Analysis/Pre- Calculus	1		
	AP Calculus***	1	AP Calculus** (see above)	Credit awarded above
	AP Environmental Science***	1	AP Environmental Science (see above)	Credit awarded above
	AP Biology***	1	AP Biology (see above)	Credit awarded above
	AP Chemistry***	1	AP Chemistry (see above)	Credit awarded above
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.* This example might highlight an AP student who excels in mathematics and science.			
TOTAL		22		6+

*A combination of any four of these verified credits would meet the requirement for four student selected verified credits.

**The AP Calculus test may substitute as an “additional assessment” only once, for *either* Algebra I *or* Geometry *or* Algebra II.

***Schools are not required to offer all of these AP courses. However, all of the AP tests to accompany these courses have been approved as substitute tests.

Student 13 – Advanced Placement (AP) Test Candidate
Emphasis on English and History and Social Science

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	AP Literature and Composition** OR AP Language and Composition** OR SOL English Reading/ Literature/Research	1
	English 10	1		
	English 11	1	AP Literature and Composition** OR AP Language and Composition** OR SOL English Writing	1
	English 12	1		
Mathematics (3 standard credits)	Algebra I	1		
	Geometry	1		
	Algebra II	1		
Laboratory Science (3 standard credits)	Earth Science	1		
	Biology	1		
	Chemistry	1		
History and Social Science (3 standard credits)	World History and Geography Part I	1	SOL World History/Geography I	1
	AP World History* (elective)	1	AP World History OR SOL World/History Geography II	1
	AP Human Geography* (elective)	1	AP Human Geography OR SOL World Geography	1
	AP U.S. History*	1	AP U.S. History OR SOL Va. and U.S. History	1
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Art I	1		
Electives (6 standard credits)	Journalism	1		
	Spanish I	1		
	Spanish II	1		
	Technical Drawing	1		
	AP World History*	Credit awarded above	AP World History (see above)	Credit awarded above
	AP Human Geography*	Credit awarded above	AP Human Geography (see above)	Credit awarded above
Student Selected Test	During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice. This example might highlight a student who excels in English and history and social science.			
TOTAL		22		6

*Schools are not required to offer all of these AP courses. However, all of the AP tests to accompany these courses have been approved as substitute tests.

**The AP Literature and Composition test and the AP Language and Composition test have each been approved as substitutes for *both* the SOL English Reading/Literature/Research test *and* the SOL English Writing test. A student may use *one* of these tests to earn *two* verified credits in English.

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

Career and Technical Education Concentration

November 2003

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Agricultural Education Concentration*

November 2003

Student 1—Outdoor Power Equipment Certification or Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Ge ography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics & Basic Plant Science - 8006	1		
Electives (6 standard credits)	Small Engine Repair – 8082	1		
	Agricultural Power and Equipment - 8016	1	Outdoor Power Equipment Certification Or Air Cooled Gas Engine Assessment (NOCTI 2068)	2*
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 2 — Agriculture Mechanics Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics & Basic Plant Science - 8006	1		
Electives (6 standard credits)	Agricultural Power and Equipment - 8016	1		
	Agricultural Mech. & Basic Plant Science – 8008	1	Agriculture Mechanics Assessment (NOCTI 1002)	2*
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 3—Horticulture-Landscaping Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics & Basic Plant Science - 8006	1		
Electives (6 standard credits)	Horticulture Sciences – ANR8034	1	Horticulture-Landscaping Assessment (NOCTI 2149)	2*
	Landscaping – ANR8036	1		
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 4 — Horticulture-Olericulture Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics & Basic Plant Science - 8006	1		
Electives (6 standard credits)	Horticulture Sciences – ANR8034	1	Horticulture -Olericulture Assessment (NOCTI 2249)	2*
	Greenhouse Plant Production and Management – ANR8035	1		
	Or Specialty Horticulture Arts – ANR8037			
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 5—Greenhouse Operators Certification

Discip line	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics and Basic Plant Science - 8006	1		
Electives (6 standard credits)	Horticultural Sciences - 8034	1	Greenhouse Operators Certification Program	2*
	Greenhouse Plant Production and Management - 8035	1		
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 6—Horticulture -Floriculture Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics and Basic Plant Science - 8006	1		
Electives (6 standard credits)	Horticultural Sciences - 8034	1	Horticulture -Floriculture Assessment (NOCTI 2049)	2*
	Floriculture	1		
	Or			
	Floral Design I – 8055			
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 7—Production Agriculture Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics and Basic Plant Science - 8006	1		
Electives (6 standard credits)	Agricultural Production Technology ANR8010	1	Production Agriculture Assessment (NOCTI 1063)	2*
	Agricultural Production Management ANR8012	1		
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 8—Forestry Products & Processing Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Agricultural Mechanics and Basic Plant Science - 8006	1		
Electives (6 standard credits)	Introduction to Natural Resources – ANR8040	1	Forestry Products & Processing Assessment (NOCTI 2037)	2*
	Forestry, Wildlife, and Soil Management – ANR8042	1		
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Business and Information Technology Concentration*

November 2003

Student 1—Legal Systems Administration

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Legal Systems Administration – 6735	1	Certification for Legal Professionals (ALS)	2*
	Word Processing - 6625	1		
	Office Administration – 6621	1	And/or	
	Accounting – 6320**		Microsoft Office Specialist (MOS)	1*
	Other	2	And/or	
	**Not required to complete sequence		IC3 Certification (Certiport) Or International Computer Driving License (ICDL US)	1*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 2—Accounting

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Accounting - 6320	1	IC3 Certification (Certiport) Or International Computer Driving License (ICDL US)	2*
	Advanced Accounting – 6321	1		
	Business Management - 6135	1	Microsoft Office Specialist (MOS)	1*
	Office Administration – 6621**	1		
	Other	2	Or	
	** Not needed for sequence, but would be helpful toward MOS certification.		Microsoft Office Specialist (MOS)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 3—Computer Information Systems

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1	ACT: Writing Subtest OR SOL English Writing	1
			----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History and Geography to 1500 A.D.	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Computer Information Systems - 6612	1	IC3 Certification (Certiport) Or	2*
	Computer Information Systems - 6613	1	International Computer Driving License (ICDL US)	
	Other	4	Microsoft Office Specialist (MOS)	1*
			Or Microsoft Office Specialist (MOS)*	2*
			Brainbench MS FrontPage 2000 And/or	1*
			IC3 Certification (Certiport)	1*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**Student completed industry certification exam and a concentration or specialization in Career and
Technical Education courses.

Student 4—Desktop Multimedia Presentations

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	ACT: Mathematics Subtest** OR SOL Algebra I	1*
	Geometry	1	ACT: Mathematics Subtest** OR SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Desktop Multimedia Presentations - 6630	1	Web Design Certificate (Cisco)	2*
	Advanced Desktop Multimedia Presentations - 6631	1	Or	
			WOW Certified Web Designer Apprentice And/Or Brainbench Dreamweaver Certification Brainbench MS FrontPage 2000 Certification	2*
	Other	4		1*
			1*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

** The ACT: Mathematics Subtest may be substituted for either the Algebra I SOL test *or* the Geometry SOL test, but not for both. The ACT: Science Reasoning Subtest may be substituted for either the Biology SOL test *or* the Chemistry SOL test, but not for both.

Student 5—Desktop Multimedia Presentations

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	ACT: Mathematics Subtest** OR SOL Algebra I	1*
	Geometry	1	ACT: Mathematics Subtest** OR SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Desktop Multimedia Presentations - 6630	1	Certified Internet Webmaster Associate (CIW) Or INet+ (CompTIA)	2* 2*
			Advanced Desktop Multimedia Presentations - 6631	1
			Brainbench HTML Certification	1*
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

** The ACT: Mathematics Subtest may be substituted for either the Algebra I SOL test *or* the Geometry SOL test, but not for both. The ACT: Science Reasoning Subtest may be substituted for either the Biology SOL test *or* the Chemistry SOL test, but not for both.

Student 6—Computer Network Software Operations

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing	1
	English 12	1	----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Computer Network Software Operations - 6650	2	Certified Novell Administrator Or	2*
			Network + (CompTIA)	2*
	Advanced Computer Network Software Operations - 6651	2	And IC3 Certification (Certiport) Or International Computer Driving License (ICDL US)	1*
			Or IT Essentials Certificate, Level 1 (Cisco) IT Essentials Certificate, Level 2 (Cisco)	2* 1*
Other	2			
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 7—Computer Network Software Operations

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Computer Network Software Operations - 6650	2	MCP: Installing, Configuring, and Administering Microsoft Windows 2000 Professional** And/Or MCP: Installing, Configuring, and Administering Microsoft Windows 2000 Server**	2* 1*
			** (Or any related Microsoft Professional IT Exam, i.e., MCP)	
	Advanced Computer Network Software Operations - 6651	2	Or Linux + (CompTIA) Unix Certificate (Cisco)	2* 1*
Other	2	And IC3 Certification (Certiport) Or International Computer Driving License (ICDL US)	1*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 8—Computer Network Software Operations

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Computer Network Software Operations - 6650	2	A+ (CompTIA)	2*
			IT Essentials Certificate, Level 1 (Cisco)	1*
			IT Essentials Certificate, Level 2 (Cisco)	1*
	Advanced Computer Network Software Operations - 6651	2	And IC3 Certification (Certiport) Or International Computer Driving License (ICDL US)	1*
Other	2	Or Microsoft Certified Professional (MCP) -via- Microsoft Academy Program -- Leading toward Microsoft Certified Systems Administrator (MCSA), and/or Microsoft Certified Systems Engineer (MCSE)	2*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 9—Office Administration

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Office Administration – 6621	1	Microsoft Office Specialist (MOS)	2*
	Word Processing - 6625	1		
	Desktop Multimedia Presentations - 6630	1	IC3 (Certiport) Or ICDL (International Computer Drivers License)	1*
	Other	3		
		Brainbench Adobe Photoshop Certification	1*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

*Student must pass any two unique MOS exams at the “core level” to be eligible for student-selected verified credits.

Student 10—Programming

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Programming - 6640	2		
	Advanced Programming 6641	2		
	Other	4	MCP: Visual Basic 6.0** Or MCP: Visual C++ 6.0** ** (Or any related Microsoft Professional IT Exam, i.e., Microsoft Certified Professional MCP) Or Brainbench Java Fundamentals Certification Brainbench Java 2 Certification Or Java Programming Certificate (Cisco)	2*
				2*
				1*
				2*
		1	And IC3 (Certiport) Or ICDL (International Computer Drivers License)	1*
Other	1			
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 11—Database Design and Management

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Database Design and Management – 6660**	2	Oracle Certified Professional (Any Oracle Professional Certification Exam)	2*
	Advanced Database Design and Management – 6661**	2		
	** Oracle Academy Program		Brainbench Java 2 Fundamentals	2*
			Brainbench Java 2 Certification	1*
		Or		
		Sun Certified Programmer Java 2 (Sun Microsystems)	2*	
	Other	2	And	1*
			IC3 (Certiport)	
			Or	
			ICDL (International Computer Drivers License)	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 12—Medical Systems Administration

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Medical Systems Administration - 6730	2	Microsoft Office Specialist (MOS)	2*
	Accounting - 6320	1		
	Word Processing – 6625	1	And	
	Other	2	IC3 Certification (Certiport) Or ICDL (International Computer Driving License) Or	1*
			Medical Assisting Assessment (NOCTI 3055)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 13—Office Specialist

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Keyboarding Applications - 6152	1		
Electives (6 standard credits)	Office Specialist I - 6740	1	Microsoft Office Specialist (MOS)	2*
	Office Specialist II - 6741	1		
	Other	4	And	
			IC3 Certification (Certiport) Or ICDL (International Computer Driving License)	1*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 14—Word Processing

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Keyboarding Applications - 6152	1		
Electives (6 standard credits)	Word Processing I - 6625	1	Microsoft Office Specialist (MOS)	2*
	Office Administration - 6621	1		
	Computer Information Systems - 6612	1	And	
	Other	3	IC3 Certification (Certiport) Or ICDL (International Computer Driving License)	1*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Family and Consumer Sciences*

November 2003

Student 1—Lodging Management Program Certificate

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Hospitality, Tourism, and Recreation Occupations - 8258	1		
Electives (6 standard credits)	Hospitality Service I - 8202	2	Lodging Management Program Certification, Level 1	2*
	Hospitality Service II - 8203	2		
	Other	2	And/Or Lodging Management Program Certification, Level 2	1 or 2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 2—Lodging Management Assessments

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Hospitality, Tourism, and Recreation Occupations - 8258	1		
Electives (6 standard credits)	Hospitality Service I - 8202	2	Hospitality Management—Food and Beverage Option Assessment (NOCTI 1079)	2*
	Hospitality Service II- 8203	2		
	Other	2	Or	
			Hospitality Management—Lodging Option Assessment (NOCTI 1080)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 3—START Curriculum Certificate and/or Hospitality Skills Certification

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Hospitality, Tourism, and Recreation Occupations - 8258	1		
Electives (6 standard credits)	Hospitality Service I - 8202	2	START Curriculum Certificate	2*
	Hospitality Service II - 8203	2		
	Other	2	And/or	
			Hospitality Skills Certification (AH&LA)—Room Attendant	1 or 2*
			And/or	
			Hospitality Skills Certification (AH&LA)—Restaurant Server	1 or 2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 4—Culinary Arts Certifications

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Food Occupations – 8250	1		
Electives (6 standard credits)	Culinary Arts I - 8275	2	ProStart National Certificate of Achievement	2*
	Culinary Arts II - 8276	2		
	Other	2		
			Or	
			ACCESS	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 5—Culinary Arts Assessments

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Food Occupations – 8250	1		
Electives (6 standard credits)	Culinary Arts I - 8275	2	Commercial Foods Assessment (NOCTI 2020)	2*
	Culinary Arts II - 8276	2		
	Other	2	Or	2*
			Food Production Management and Services Assessment (NOCTI 2026)	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 6—Early Childhood Education Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Early Childhood Education and Services - 8233	1		
Electives (6 standard credits)	Early Childhood Education and Services I - 8285	2	Early Childhood Care and Education Assessment (NOCTI 2016)	2*
	Early Childhood Education and Services II - 8286	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 7—Fashion Design Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Fashion Design and Marketing - 8247	1		
Electives (6 standard credits)	Fashion Design I – 8280	2	Clothing and Textiles Management and Production Assessment (NOCTI 1018)	2*
	Fashion Design II - 8281	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Health and Medical Sciences Concentration*

November 2003

Student 1—Certified Dental Assistant

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Health and Medical Sciences - 8302	1		
Electives (6 standard credits)	Dental Assistant I - 8328	2	NRDA Certification (Dental Assisting)	2*
	Dental Assistant II - 8329	2		
	Other	1		
	Other	1	Or Certified Dental Assistant: Radiation Health & Safety Examination (DANB) Or Certified Dental Assistant: Infection Control Examination (DANB)	2*
			Or Dental Assisting Assessment (NOCTI 2026)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 2—Emergency Medical Technician

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Health Occupations - 8302	1		
Electives (6 standard credits)	Emergency Medical Technician--Basic I – 8333	3	Emergency Medical Technician (VADOH)	2*
	Emergency Medical Technician--Basic II – 8334	3		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 3—Certified Nurse Aide

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Health Occupations - 8302	1		
Electives (6 standard credits)	Nursing Assistant I - 8360	3	Certified Nurse Aide	2*
	Nursing Assistant II - 8362	3		
	Or			
	Health Assistant I - 8345	3		
	Health Assistant II - 8346	3		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 4—Certified Medical Assistant

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Health Occupations - 8302	1		
Electives (6 standard credits)	Medical Assistant I - 8345	3	NRDA Certification (Medical Assisting)	2*
	Medical Assistant II - 8346	3		
			Or	
			Medical Assisting Assessment (NOCTI 3055)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 5—Practical Nursing

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Health Occupations - 8302	1		
Electives (6 standard credits)	Practical Nursing I - 8357	3	Practical Nursing (NOCTI 2062)	2*
	Practical Nursing II - 8358	3		
			Or	
			Certified Nurse Aide (VA Board of Nursing)	2*
			And/Or	
		Licensed Practical Nurse (LPN)** (Virginia Board of Nursing)	NA	
		**Cannot be obtained until post-secondary course/clinical work is completed.		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

SAMPLE COURSES OF STUDY THAT SATISFY STANDARD DIPLOMA GRADUATION REQUIREMENTS

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Marketing Education Concentration*

November 2003

Student 1—Lodging Management Program

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing - 8125	1		
Electives (6 standard credits)	Hotel/Motel Marketing (co-op) – 8160	2	Lodging Management Program Certification, Level 1	2*
	Advanced Hotel/Motel Marketing (co-op) - 8162	2		
			Lodging Management Program Certification, Level 2	1*
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 2—Marketing and/or Customer Service Certifications

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)	Marketing (co-op) - 8120	2	Fundamental Concepts of Business and Marketing Certificate (ASK Institute)	2*
	Advanced Marketing (co-op) - 8130	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 3—Marketing and/or Customer Service Certifications

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. His tory	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)	Marketing (co-op) - 8120	2	National Professional Certification in Customer Service (S&SVP)	2*
	Advanced Marketing (co-op) - 8130	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 4—Retail Trades Assessment

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)	Marketing (co-op) - 8120	2	Retail Trades Assessment (NOCTI 2053)	2*
	Advanced Marketing (co-op) – 8130	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 5—Fashion Marketing

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)	Fashion Marketing (co-op) – 8140	2	Fundamental Concepts of Business and Marketing Certificate (ASK Institute)	2*
	Advanced Fashion Marketing (co-op) - 8145	2	And/or Advanced Concepts of Business and Marketing Certification (ASK Institute) Or Retail Trades Assessment (NOCTI 2053)	1 or 2* 2*
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 6—Hospitality Skills Certifications

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)	Hotel Motel Marketing (co-op) – 8160	2	Hospitality Skills Certification: Front Desk Agent (AH&LA)	2*
	Advanced Hotel/Motel Marketing (co-op) - 8162	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 7—Hospitality Management Assessments

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)				
	Hotel Motel Marketing (co-op)– 8160	2		
	Advanced Hotel/Motel Marketing (co-op) - 8162	2	Hospitality Management—Lodging Option Assessment (NOCTI 1080)	2*
	Other	2		
			Or	
			Hospitality Management—Food & Beverage Assessment (NOCTI 1079)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 8—Real Estate Sales Licensure

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Internet Marketing – 8125	1		
Electives (6 standard credits)	Real Estate Marketing – 8191	1	Licensure: Real Estate Salesperson (Virginia Real Estate Board)	1*
	Other	5		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Technology Education Concentration*

November 2003

Student 1—AutoCAD 2000 Certification

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technology Foundations - 8403	1		
Electives (6 standard credits)	Technical Drawing and Design - 8435	1	AutoCAD 2000 (Brainbench)	2*
	Engineering Drawing and Design - 8436	1		
	And/Or Architectural Drawing and Design - 8437	1		
	Other	3 or 4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 2—A+ Certification (CompTIA)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technology Foundations - 8403	1		
Electives (6 standard credits)	Electronic Systems I – 8416	1	A+ Certification (CompTIA)	2*
	Electronic Systems II – 8412	1		
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 3—Electronics Certification

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technology Foundations - 8403	1		
Electives (6 standard credits)	Electronic Systems I – 8416	1	Certified Electronics Technician Associate (ETA)	2*
	Electronic Systems II – 8412	1		
	Other	4		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**SAMPLE COURSES OF STUDY THAT
SATISFY STANDARD DIPLOMA
GRADUATION REQUIREMENTS**

**FOR STUDENTS IN TRANSITION YEARS
(Ninth graders in 2000-2001, 2001-2002, and 2002-2003)**

*Career and Technical Education
Trade and Industrial Education Concentration*

November 2003

Student 1—CISCO Certificates and/or Certified Networking Associate (CCNA)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Computer Mathematics	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Electronic Systems I - 8416	1		
Electives (6 standard credits)	Computer Networking & Hardware Operations I/II – 8542/43	3		
	Computer Networking & Hardware Operations III/IV – 8544/45	3	Cisco CCNA Academy Certificate (Levels 1 <u>and</u> 2)	2*
			Cisco CCNA Academy Certificate (Levels 3 <u>or</u> 4)	1*
			Or Cisco Certified Networking Associate (CCNA)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

*Student must pass any two Cisco Academy end-of-course exams at (Levels 1, 2, 3, or 4) to be eligible for student-selected verified credits.

Student 2—Computer Hardware Certifications

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1	ACT: Writing Subtest OR SOL English Writing	1
			ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 11	1		
English 12	1			
Mathematics (3 standard credits)	Algebra I, Part I	1	SOL Algebra I SOL Geometry	1*
	Algebra I, Part II	1		1*
	Geometry	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History and Geography to 1500 A.D.	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Computer Systems Technology I - 8622	3	A+ (CompTIA)	2*
	Computer Systems Technology II - 8623	3	Or IT Essentials, Level 1 (Cisco)	2*
			Or Computer Service Technician (ETA)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

**Student completed industry certification exam and a concentration or specialization in Career and Technical Education courses.

Student 3—HVAC Technician

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Reading/Literature/Research SOL English Writing	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Heating, Ventilation, Air Conditioning & Refrigeration I - 8503	3	Residential Air-Conditioning and Heating Certification (ARI)	2*
	Heating, Ventilation, Air Conditioning & Refrigeration II - 8504	3	EPA Technician Certification	1*
			Or	
			Electrical Certification (HVAC Excellence)	2*
			Air Conditioning Certification (HVAC Excellence)	1*
		Or		
		HVAC, Level 1 Certification (NCCRE)	2*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 4—Advertising Design

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1	SOL English Reading/Literature/Research	1
	English 10	1	SOL English Writing	1
	English 11	1		
	English 12	1		
Mathematics (3 standard credits)	Algebra I, Part I	1		
	Algebra I, Part II	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Advertising Design I - 8570	2	Advertising Design Assessment (NOCTI 2019)	2*
	Advertising Design II - 8571	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 5—Drafter

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I SOL Geometry SOL Algebra II	1* 1* 1*
	Geometry	1		
	Algebra II	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technology Foundations - 8403	1		
Electives (6 standard credits)	Drafting I - 8530	2	Drafter Certification* (ADDA)	2*
	Drafting II - 8531	2		
	Other	2	Or	
			Brainbench AutoCAD 2000*	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 6—Electronics Technician

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Electronics Technology I - 8536	3	Certified Electronics Technician Associate (ETA)	2*
	Electronics Technology II - 8537	3	Certified Satellite Disk Installer (ETA)	1*
			Or	
			Certified Computer Service Technician (ETA)	2*
			Consumer Electronics Certification (ETA)	1*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 7—Graphic Imaging Technology

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Graphic Imaging Technology I - 8660	3	PrintED Certification (GAERF)	2*
	Graphic Imaging Technology II - 8661	3		
			Brainbench Quark Xpress Certification	1*
			Or	
			Graphic Communications Technology Assessment (NOCTI 4042)	2*
		Or		
		Brainbench Adobe PageMaker Certification	2*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 8—Television Production

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I, Part I	1	ACT: Mathematics Subtest** OR SOL Algebra I ----- ACT: Mathematics Subtest** OR SOL Geometry	1*
	Algebra I, Part II	1		1*
	Geometry	1		
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	ACT: Science Reasoning Subtest** OR SOL Biology ACT: Science Reasoning Subtest** OR SOL Chemistry	1*
	Chemistry	1		1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Television Production I - 8688	2	Audio-Visual Communications Assessment (NOCTI 2005)	2*
	Television Production II - 8689	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

** The ACT: Mathematics Subtest may be substituted for either the Algebra I SOL test *or* the Geometry SOL test, but not for both. The ACT: Science Reasoning Subtest may be substituted for either the Biology SOL test *or* the Chemistry SOL test, but not for both.

Student 9—Building Trades Certifications

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Building Trades I - 8515	3	Carpentry, Level I, Certification (NCCRE)	2*
	Building Trades II - 8516			
			Construction Fundamentals Certification (NCCRE)	1*
			Or	
			Electrical, Level I Certification (NCCRE)	2*
			Or	
		Plumbing, Level I Certification (NCCRE)	2*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 10—Cabinetmaking

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	ACT: Mathematics Subtest** OR SOL Algebra I	1*
	Geometry	1	ACT: Mathematics Subtest** OR SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Cabinetmaking I - 8604	2		
	Cabinetmaking II - 8605	2		
			Cabinetmaking Assessment (NOCTI) Or Construction Fundamentals Certification (NCCRE)	2*
	Other	1		2*
	Other	1		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

** The ACT: Mathematics Subtest may be substituted for either the Algebra I SOL test *or* the Geometry SOL test, but not for both. The ACT: Science Reasoning Subtest may be substituted for either the Biology SOL test *or* the Chemistry SOL test, but not for both.

Student 11—Carpentry

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing ----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Carpentry I - 8601	2		
	Carpentry II - 8602	2	Carpentry, Level 1 Certification (NCCRE) Construction Fundamentals Certification (NCCRE)	2*
				1*
	Other	1	Or Carpentry Assessment (NOCTI)	2*
	Other	1		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 12—Electrical Occupations

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Electricity I - 8533	3	Electrical, Level I, Certification (NCCRE)	2*
	Electricity II - 8534	3	Fiber Optic Network Cabling Certification (RBT)	1*
			Copper Based Cabling Certification (RBT)	1*
			Or	
			NOCTI Construction Electricity Assessment (1024)	2*
		Fiber Optics Installer Certification (ETA)	1*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 13--Masonry

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Masonry I - 8512	2	Masonry, Level I Certification (NCCRE)	2*
	Masonry II - 8513	2		Construction Fundamentals Certification (NCCRE)
	Other	1		
	Other	1	Or Construction Masonry — Bricklaying Assessment (NOCTI 2125)	2*
			Or Construction Masonry — Blocklaying Assessment (NOCTI 2025)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 14—Plumbing

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Plumbing I - 8551	2	Plumbing, Level 1 Certification (NCCRE)	2*
	Plumbing II - 8552	2		1*
	Other	2	Or Plumbing Assessment (NOCTI 2061)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 15—Industrial Maintenance Technology

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing SOL English Reading/Literature/Research	1
	English 12	1		1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Electrical Systems I - 8416	1		
Electives (6 standard credits)	Industrial Maintenance Technology I – 8575	3	Hydraulics Specialist Certification (FPS)	2*
	Industrial Maintenance Technology II – 8576	3	Or	
			Pneumatic Technician Certification (FPS)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 16—Automotive Technician (ASE)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History and Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Electrical Systems I - 8416	1		
Electives (6 standard credits)	Automotive Service Technology I--Certified - 8506	3	Automotive Technician (ASE)--Brakes	2*
	Automotive Service Technology II—Certified - 8507	3	Automotive Technician (ASE)--Electrical/Electronic Systems	1*
			Automotive Technician (ASE)--Engine Performance	1*
			Automotive Technician (ASE)—Suspension and Steering	1*
			Or	
		Parts Specialist: Automotive or Medium/Heavy Truck (ASE)	2*	
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 17—Machining Technology

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Precision Machining Technology I - 8539	3	Machining Skills—Level 1 (NIMS)	2*
	Precision Machining Technology II - 8540	3		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

***Student must pass any two unique MOS exams at the “core level” to be eligible for student-selected verified credits.**

Student 18—Metalforming Skills

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Sheet Metal I - 8663	3	Metalforming Skills—Level 1 (NIMS)	2*
	Sheet Metal II - 8664	3		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 19—Welding

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Technical Drawing/Design – 8435	1		
Electives (6 standard credits)	Welding I - 8672	3	SENSE Training Program Certification (Welding/AWS)	2*
	Welding II - 8673	3	Or Welding, Level 1, Certification (NCCRE)	2*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 20—Cosmetology

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Nutrition and Wellness- 8229	1		
Electives (6 standard credits)	Cosmetology I - 8527	3	Cosmetology Licensure (Virginia Board of Cosmetology)	2*
	Cosmetology II - 8528	3		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 21—Culinary Arts

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest OR SOL English Writing	1
	English 12	1	----- ACT: Reading Subtest OR SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I, Part I	1	ACT: Mathematics Subtest** OR SOL Algebra I	1*
	Algebra I, Part II	1		
	Geometry	1	----- ACT: Mathematics Subtest** OR SOL Geometry	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	ACT: Science Reasoning Subtest** OR SOL Biology	1*
	Chemistry	1	ACT: Science Reasoning Subtest** OR SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Introduction to Food Occupations - 8250	1		
Electives (6 standard credits)	Culinary Arts I - 8521	2	ProStart National Certification of Achievement (NRA)	2*
	Culinary Arts II - 8523	2	Or ACCESS (ACF)	2*
			Or Commercial Foods Assessment (NOCTI 2020)	2*
			Or Food Production Management and Services Assessment (NOCTI 2036)	2*
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

** The ACT: Mathematics Subtest may be substituted for either the Algebra I SOL test *or* the Geometry SOL test, but not for both. The ACT: Science Reasoning Subtest may be substituted for either the Biology SOL test *or* the Chemistry SOL test.

Student 22—Nail Technician

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Bio logy	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Nutrition and Wellness- 8229	1		
Electives (6 standard credits)	Nail Technician I - 8692	2		
	Nail Technician II - 8693	2		
			Nail Technician Licensure (Virginia Board of Cosmetology)	2*
	Other	1		
	Other	1		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 23—Outdoor Power Equipment Certification

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Electrical Systems I - 8416	1		
Electives (6 standard credits)	Small Engine Repair I - 8725	2		
	Small Engine Repair II - 8726	2	Outdoor Power Equipment Certification (EETC) Or Air Cooled Gas Engine Repair Assessment (NOCTI 2068)	2*
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 24—Criminal Justice

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	SOL English Writing	1
	English 12	1	SOL English Reading/Literature/Research	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History /Geography I	1	SOL World History/Geography I	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Information Technology Fundamentals - 6670	1		
Electives (6 standard credits)	Criminal Justice I - 8702	2	Law Enforcement Assessment (NOCTI 1081)	2*
	Criminal Justice II - 8703	2		
	Other	2		
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+

Student 25—Automotive Body Technology (ASE)

Discipline	Sample Courses	Standard Credits	SOL Test/Additional Assessment Passed	Verified Credits
English (4 standard credits)	English 9	1		
	English 10	1		
	English 11	1	ACT: Writing Subtest	1
	English 12	1	ACT: Reading Subtest	1
Mathematics (3 standard credits)	Algebra I	1	SOL Algebra I	1*
	Geometry	1	SOL Geometry	1*
	Algebra II	1	SOL Algebra II	1*
Laboratory Science (3 standard credits)	Earth Science	1	SOL Earth Science	1*
	Biology	1	SOL Biology	1*
	Chemistry	1	SOL Chemistry	1*
History and Social Sciences (3 standard credits)	World History/Geography I	1	SOL World History and Geography	1*
	Virginia and U.S. History	1	SOL Virginia and U.S. History	1*
	Virginia and U.S. Government	1		
Health and Physical Education (2 standard credits)	Health and PE 9	1		
	Health and PE 10	1		
Fine Arts or Practical Arts (1 standard credit)	Electrical Systems I - 8416	1		
Electives (6 standard credits)	Automotive Body Technology - 8676	3	ASE Collision Repair & Refinish Test Series: (Non-structural Analysis & Repair)	2*
	Automotive Body Technology – 8677	3	ASE Collision Repair & Refinish Test Series: (Painting and Refinishing)	1*
			ASE Collision Repair & Refinish Test Series: (Structural Analysis & Repair)	1*
Student Selected Test			*During the transition years, students must earn 2 verified credits in English and 4 other verified credits of their choice.	
TOTAL		22		6+