

THE ADVANCED TECHNICAL CREDIT PROGRAM

2009-2010 ATC Statewide-Articulated Course Crosswalk

How to Use the ATC Statewide-Articulated Course Crosswalk

The content-enhanced high school courses listed in the following ATC Course Crosswalk have been found to be substantially equal to the introductory-level college courses indicated. Statewide teams of secondary and postsecondary subject area faculty compared the Texas Essential Knowledge and Skills (TEKS) for each high school course with the course descriptions, syllabi, and expectations of courses found in the postsecondary Workforce Education Course Manual (WECM).^{1[1][1]} These courses are most often used in technical certificate and degree programs at public community and technical colleges, including Tech Prep programs.

ATC Course Numbers and Abbreviations – ATC statewide-articulated secondary_Career and Technical Education (CTE) courses are no longer identified with unique PEIMS service ID/course numbers and course abbreviations. All PEIMS numbers with a unique “T” in the number have been removed for 2009-2010. Districts will report local and statewide articulated courses in the PEIMS 415 Record with a new “A” articulation indicator code.

“A” Special Explanation Course Code - All courses eligible for college credit by statewide and local articulation are identified on the high school transcript (Academic Achievement Record, AAR) with the special explanation course code “A.” This code helps participating colleges identify courses taught with enhanced content for award of articulated college credit. For more information, go to <http://ritter.tea.state.tx.us/curriculum/aarmenu.html>

Although the primary purpose of the ATC Course Crosswalk is to provide guidance to colleges in the award of technical (workforce education) college credit for ATC statewide-articulated high school courses, under specific circumstances colleges may elect to award academic transfer credit from the postsecondary Academic Course Guide Manual (AGCM) for selected courses.

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For more information on ATC:

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or visit:

<http://www.atctexas.org/>

Using ATC Statewide-Articulated Courses in High School Graduation Plans

This table shows how ATC statewide-articulated career and technical education courses can be used as core courses and electives in high school graduation plans.

19 TAC Chapter 74, Subchapter D. Graduation Requirements	
Core Courses	SAMPLE Articulated Courses (1 credit minimum) PEIMS Course Numbers and Abbreviations for Technical Placement (-TP) Courses Grades 11-12
Science or Academic Elective	Principles of Technology I (PTI) 12382820
Physical Education	2-3 credit work based training substitutions: <i>For example:</i> Administrative Procedures (ADVADPR1) 12031200
Health Education	Health Science Technology I (HSTI) 12101300 Health Science Technology II (HSTII) 12101400
Technology Applications	Business Computer Information Systems I (BEGBCIS1) 12011200 Business Computer Information Systems II (ADVBCIS1) 12031300 Telecommunications and Networking (TELE/NET) 12022700 Business Image Management/Multimedia (BUSIM/MM) 12022300 Computer Applications (CA) 12341470 Computer Multimedia/Animation Technology (CMAT) 12362680 OR Complete a sequence of 2 or more ATC courses for 3 or more credits to demonstrate proficiency in technology applications knowledge and skills.
Electives	<i>All ATC statewide-articulated courses.</i>

When school districts use these course numbers, they must be able to verify that:

1. Course content is enhanced beyond the required TEKS with standardized college course competencies (linked to the on-line ATC course crosswalk);
2. Teachers have met required faculty qualifications and have completed TEA-required ATC staff development for each course taught; and
3. Innovative ATC courses are state approved by TEA.

The use of the A code on the AAR will be needed for postsecondary institutions to identify local and ATC courses on transcripts. Information on the 2008 AAR Minimum Standards are posted at <http://www.tea.state.tx.us/curriculum/2008AARMinimumStandards.pdf>

The following is an excerpt from this document:

1.15 Special Explanation Codes

The list of codes on the following pages is authorized by the TEA. **The use of the “A” code for courses included in an articulated agreement is required. The use of the “D” code for dual credit courses is required.** The use of all other codes is optional. Districts may use additional codes locally. Insert the applicable code(s) in the appropriate field. (Please note: the capacity of TReX to accept locally-developed codes is currently limited. For more information, please visit [http://www.tea.state.tx.us/trex/.](http://www.tea.state.tx.us/trex/))

Code	Special Explanation
A	A high school course for which college credit maybe awarded by a college under the conditions of a local articulation agreement or the statewide Advanced Technical Credit Program agreement (Colleges agreeing to award credit under the conditions of a local agreement must be named elsewhere on the AAR or in an *attachment.)(Please note: the capacity of TReX to include *notes and *attachments is currently limited. For more information, please visit http://www.tea.state.tx.us/trex/.)

All ATC statewide-articulated courses will be noted with the “A” special explanation course code on high school transcripts.

ATC Statewide-Articulated Course Crosswalk Arranged by 16 Clusters

Agriculture, Food and Natural Resources Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Agricultural Power and Machinery (1-3 credits)</p> <p>(AGPOWER) 11934421</p>	<p><u>Shop Safety and Procedures</u></p> <p>DEMR 1301 or DEMR 1401 (or DEMR 1001 CEU)</p> <p style="text-align: center;">AND</p> <p><u>Power Train I</u></p> <p>DEMR 1321 or DEMR 1421 (or DEMR 1021 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Agricultural Mechanics II (1-3 credits)</p> <p>(AGMECHII) 11934423</p>	<p><u>Introduction to Welding Using Multiple Processes</u></p> <p>WLDG 1307 or WLDG 1407 (or WLDG 1007 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Introduction to Welding Fundamentals</u></p> <p>WLDG 1421 and WLDG 1521</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Introduction to Horticultural Science (1/2 credit)*</p> <p>(INHORTSC) 11921261</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Use binomial system for plant taxonomy ▪ Identify anatomical plant structures ▪ Identify morphological plant structures ▪ Identify floral structures ▪ Identify botanical fruit types <p style="text-align: center;">AND</p> <p>Horticultural Plant Production (1/2 credit)*</p> <p>(HORTPLPR) 11923362</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Prepare, dilute and apply rooting propagation hormones ▪ Describe and perform grafts by various methods ▪ Explain and perform various methods to break seed dormancies (i.e. scarification, stratification, priming, etc.) ▪ Explain and perform various methods of above 	<p><u>Principles of Horticulture</u></p> <p>HALT 1301 or HALT 1401</p> <p><u>Offered at these campuses:</u></p>

<p>ground layering</p> <ul style="list-style-type: none"> ▪ Explain and perform various methods of plant division 	
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Floral Design and Interior Landscape Development (1/2 credit)*</p> <p>(FLDEINLD) 11923363</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Identify and practice proper care and handling of various floral materials ▪ Identify and prepare (construct) commonly used floral designs ▪ Use binomial system to classify interior plants <p style="text-align: center;">AND</p> <p>Advanced Floral Design (1/2 credit)*</p> <p>(ADVFLORD) 11923365</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Identify inflorescence types ▪ Perform/practice client consultations as related to event planning ▪ Construct floral designs appropriate for special events (i.e. weddings, funerals, etc.) 	<p><u>Floral Design</u> FMKT 1301 or FMKT 1401</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Horticultural Plant Production (1/2 credit)*</p> <p>(HORTPLPR) 11923362</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Prepare, dilute and apply rooting propagation hormones ▪ Describe and perform grafts by various methods ▪ Explain and perform various methods to break seed dormancies (i.e. scarification, stratification, priming, etc.) ▪ Explain and perform various methods of above ground layering ▪ Explain and perform various methods of plant division <p style="text-align: center;">AND</p> <p>Landscape Design, Construction and Maintenance (1/2 credit)*</p> <p>(LADECOMA) 11923361</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Examine landscape-related career opportunities ▪ Prepare client inventory checklist ▪ Properly use scales and other drafting tools ▪ Discuss extended maintenance contracts ▪ Read and interpret landscape design plans 	<p><u>Plant Propagation</u> HALT 2314 or HALT 2414</p> <p><u>Offered at these campuses:</u></p>

<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Horticulture I (1-3 credits)*</p> <p>(HORT) 11934461</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Prepare, dilute and apply rooting propagation hormones ▪ Describe and perform grafts by various methods ▪ Explain and perform various methods to break seed dormancies (i.e. scarification, stratification, priming, etc.) ▪ Explain and perform various methods of above ground layering ▪ Explain and perform various methods of plant division 	<p><u>Plant Propagation</u></p> <p>HALT 2314 or HALT 2414</p> <p><u>Offered at these campuses:</u></p>
<p>*Student must also complete at least one of the following:</p> <ul style="list-style-type: none"> ▪ Related competitive event (i.e. LDE, CED) ▪ Related SAE (Supervised Ag Experience) ▪ Related job/intern position or experience 	

Architecture and Construction

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Heating, Ventilation, Air-Conditioning and Refrigeration II</p> <p>(A-CREF2) 12523102</p> <p><i>Prerequisite:</i> Heating, Ventilation, Air-Conditioning and Refrigeration I (A-CREF) 12523101</p>	<p style="text-align: center;"><u>Basic Electricity for HVAC</u></p> <p>HART 1301 or HART 1401 (or HART 1001 CEU)</p> <p style="text-align: center;">AND</p> <p style="text-align: center;"><u>Refrigeration Principles</u></p> <p>HART 1307 or HART 1407 (or HART 1007 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Housing (1/2 credit)</p> <p>(HOUSING) 12208210</p> <p>AND</p> <p>Interior Design (1/2 credit) (Architecture & Construction Cluster)</p> <p style="text-align: center;">(INTR-DSG) 12208310</p>	<p style="text-align: center;"><u>Fundamentals of Interior Design</u></p> <p>INDS 1311 or INDS 1411 (or INDS 1011 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>

Arts, Audiovisual Technology and Communications

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Computer Multimedia/Animation Technology</p> <p>(CMAT) 12362680</p> <p><i>Prerequisite:</i> Business Computer Information Systems I (BEGBCIS1) 12011200 or Computer Applications (CA) 12341470</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Demonstrate knowledge of legal restrictions and copyright laws related to media ▪ Utilize appropriate compression schemes for various product output ▪ The student's portfolio will demonstrate skills and varied experiences in multimedia ▪ Utilize a scanner to acquire artwork for use in projects ▪ Utilize a digital camera to take and acquire photographs for use in projects ▪ Acquire video for use in projects ▪ Utilize audio equipment/tools to record sound for use in projects ▪ Select and use appropriate resolution settings for multimedia and web output 	<p><u>Introduction to Multimedia</u></p> <p>IMED 1301 or IMED 1401 (or IMED 1001 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Basic Animation</u></p> <p>ARTV 1303 or ARTV 1403 (or ARTV 1003 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Media Technology I</p> <p>(MEDTECH) 12512301</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Demonstrate knowledge of legal restrictions and copyright laws related to media ▪ Utilize appropriate compression schemes for various product output ▪ The student's portfolio will demonstrate skills and varied experiences in audio and video productions ▪ Demonstrate proper uses of audio and video equipment ▪ Explain the differences between linear and nonlinear editing techniques ▪ Work as a member of a production team ▪ Identify current and emerging technologies in the audio and video fields 	<p><u>Digital Video</u></p> <p>ARTV 1351 or ARTV 1451 (or ARTV 1051 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Digital Sound</u></p> <p>ARTV 1343 or ARTV 1443 (or ARTV 1043 CEU)</p> <p><u>Offered at these campuses:</u></p>

Business Management and Administration

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Business Management (½ credit)</p> <p>(BUSMGMT) 12022500</p> <p style="text-align: center;">AND</p> <p>Business Ownership (½ credit)</p> <p>(BUSOWNSP) 12022600</p>	<p><u>Principles of Management</u></p> <p>BMGT 1303 (or BMGT 1012 CEU)</p> <p>ARCHIVE PENDING for BMGT 1303 and BMGT 1012 CEU, 8/31/09, See WECM for more information</p> <p style="text-align: center;">OR</p> <p><u>Supervision</u></p> <p>BMGT 1301 (or BMGT 1001 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>International Business</p> <p>(ADVINTB1) 12031500</p>	<p><u>Introduction to International Business and Trade</u></p> <p>IBUS 1305 or IBUS 1405 (or IBUS 1005 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Administrative Procedures</p> <p>(ADVADPR1) 12031200</p>	<p><u>Administrative Office Procedures I</u></p> <p>POFT 1309 or POFT 1409 (or POFT 1009 CEU)</p> <p><u>Offered at these campuses:</u></p>

Education and Training

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

Child Development (CHLD-DEV) 12203310, Preparation for Parenting (PREP-PAR) 12203210, Early Childhood Professions I & II (ECP-I, ECP-II) N1220301 & N1220302, and Child Care and Guidance, Management, and Services I (CHD-CR-I) 12203421 are now listed in the Human Services Cluster.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Ready, Set, Teach! I (1-3 credits)</p> <p>(TEACH-I) N1220307</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Multi-cultural enhancement/variety of learning environments and aesthetic 	<p style="text-align: center;"><u>Curriculum Resources for Early Childhood Programs</u></p> <p>CDEC 1313 or CDEC 1413 (or CDEC 1013 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Child Development Associate Training III</u></p> <p>CDEC 2324 (or CDEC 2024 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>

Finance

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Accounting I (BEGACCT1) 12022100</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Must include computerized accounting 	<p style="text-align: center;"><u>Introduction to Accounting I</u> ACNT 1303 or ACNT 1403 (or ACNT 1003 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Principles of Accounting</u> ACNT 1325 or ACNT 1425 (or ACNT 1025 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Accounting II (1 credit) (ADVACCT1) 12031100</p> <p style="text-align: center;"><i>Prerequisite:</i> Accounting I (BEGACCT1) 12022100</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Must include computerized accounting 	<p style="text-align: center;"><u>Introduction to Accounting II</u> ACNT 1304 or ACNT 1404 (or ACNT 1004 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Banking and Financial Systems (½ credit) (BNKFINSY) 12022200</p> <p style="text-align: center;">AND</p> <p>Accounting I (BEGACCT1) 12022100</p> <p style="text-align: center;">OR</p> <p>Accounting II (½ credit) (ADVACCT1) 12031100</p>	<p style="text-align: center;"><u>Principles of Bank Operation</u> BNKG 1303 (or BNKG 1003 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>

Government and Public Administration
Effective School Year - 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<i>No courses offered in this cluster</i>	

Health Science

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All HST III courses will be coded with the same PEIMS number (12101500). The differentiation will be dependent on which certification the student receives in the course.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Medical Terminology (½ credit) (MEDTERM) 12121220</p> <p style="text-align: center;">AND ONE OF THE FOLLOWING:</p> <p>Introduction to Health Science Technology (½-1 credit) (INTROHST) 12101200</p> <p style="text-align: center;">OR</p> <p>Health Science Technology I (HSTI) 12101300</p> <p style="text-align: center;">OR</p> <p>Health Science Technology II (HSTII) 12101400</p>	<p style="text-align: center;"><u>Medical Terminology</u></p> <p>HPRS 1106 or HPRS 1206 (or HPRS 1006 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Medical Terminology</u></p> <p>MDCA 1213 or MDCA 1313 (or MDCA 1013 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Medical Terminology</u></p> <p>HITT 1205 or HITT 1305 (or HITT 1005 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Health Science Technology I (HSTI) 12101300</p> <p style="text-align: center;">AND</p> <p>Health Science Technology II (HSTII) 12101400</p> <p><i>Prerequisite</i> for HSTII: Biology; Chemistry suggested</p>	<p style="text-align: center;"><u>Introduction to Health Professions</u></p> <p>HPRS 1101 or HPRS 1201 (or HPRS 1001 CEU)</p> <p style="text-align: center;">AND</p> <p style="text-align: center;"><u>Basic Health Profession Skills</u></p> <p>HPRS 1204 or HPRS 1304 (or HPRS 1004 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p style="text-align: center;"><i>Nurse Aide/Home Health Aide</i></p> <p>Health Science Technology II (HSTII) 12101400OR</p> <p>Health Science Technology III Vocational Nursing (HSTIII) 12101500</p> <p><i>Required:</i> Biology, Chemistry, and Anatomy and Physiology (may be concurrent enrollment).</p> <p style="text-align: center;">AND</p>	<p style="text-align: center;"><u>Nurse Aide for Health Care Organizations I</u></p> <p>NURA 1301 or NURA 1401 (or NURA 1001 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>

Completion of all Nurse Aide requirements and listed as *active* on the Texas Nurse Aide Registry.

<p align="center"><u>College Course Outcomes</u></p> <p align="center"><i>Vocational Nursing</i></p> <p>Health Science Technology II (HSTII) 12101400 <i>Prerequisite</i> for HSTII: Biology; Chemistry suggested</p> <p align="center">AND</p> <p>Health Science Technology III Vocational Nursing (HSTIII) 12101500</p> <p><i>Required: Biology, Chemistry, and Anatomy and Physiology (may be concurrent enrollment).</i></p>	<p><u>Disease Control and Prevention</u> VNSG 1115 (or VNSG 1015 CEU)</p> <p align="center">AND</p> <p><u>Basic Nursing Skills</u> VNSG 1323 or VNSG 1423 (or VNSG 1023 CEU)</p> <p align="center">AND</p> <p><u>Health Sciences</u> VNSG 1405 or VNSG 1505</p> <p align="center">AND</p> <p><u>Anatomy and Physiology for Allied Health</u> VNSG 1320 or VNSG 1420</p> <p><u>Offered at these campuses:</u></p>
<p align="center"><u>College Course Outcomes</u></p> <p align="center"><i>Medical Laboratory Technology</i></p> <p>Health Science Technology III Medical Lab (HSTIII) 12101500 <i>Required:</i> Biology and Chemistry</p> <p><i>Suggested:</i> Anatomy and Physiology (may be concurrent enrollment)</p>	<p><u>Introduction to Clinical Laboratory Science</u> MLAB 1101 or MLAB 1201 (or MLAB 1001 CEU)</p> <p align="center">AND</p> <p><u>Phlebotomy</u> PLAB 1223 or PLAB 1323 (or PLAB 1023 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p align="center"><u>College Course Outcomes</u></p> <p align="center"><i>Pharmacy Assisting</i></p> <p>Health Science Technology III Pharmacy Aide (HSTIII) 12101500</p> <p><i>Required:</i> Biology and Chemistry</p> <p><i>Suggested:</i> Anatomy and Physiology (may be concurrent enrollment)</p>	<p><u>Introduction to Pharmacy</u> PHRA 1301 (or PHRA 1001 CEU)</p> <p align="center">AND</p> <p><u>Pharmaceutical Mathematics I</u> PHRA 1209 or PHRA 1309 (or PHRA 1009 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p align="center"><u>College Course Outcomes</u></p> <p align="center"><i>Medical Assisting</i></p> <p>Health Science Technology III Medical Assisting (HSTIII) 12101500</p> <p><i>Prerequisite:</i> Health Science Technology II required; Biology; Chemistry suggested</p>	<p><u>Medical Law and Ethics</u> MDCA 1205 or MDCA 1305 (or MDCA 1005 CEU)</p> <p align="center">AND</p> <p><u>Procedures in a Clinical Setting</u> MDCA 1417 or MDCA 1517 <u>OR</u> MDCA 1216 and MDCA 1217 (or MDCA 1017 CEU)</p> <p align="center">OR</p> <p><u>Human Disease/Pathophysiology</u> MDCA 1302 <u>OR</u> MDCA 1402 <u>OR</u> MDCA 1201 and MDCA 1202 (or MDCA 1002 CEU)</p> <p align="center">OR</p> <p><u>Medical Terminology</u> MDCA 1213 or MDCA 1313 (or MDCA 1013 CEU)</p> <p><u>Offered at these campuses:</u></p>

<p><u>College Course Outcomes</u></p> <p><i>Emergency Medical Technology</i> Health Science Technology III EMT-Basic (HSTIII) 12101500</p> <p>AND</p> <p>State Certification in EMT-Basic</p> <p><u><i>Required:</i></u> Biology and Chemistry</p> <p><u><i>Suggested:</i></u> Anatomy and Physiology (may be concurrent enrollment)</p>	<p><u>Clinical – Emergency Medical Technician - Basic</u></p> <p>EMSP 1160 (EMSP 1060 CEU)</p> <p>AND</p> <p><u>Emergency Medical Technician – Basic</u></p> <p>EMSP 1401 or EMSP 1501 (or EMSP 1001 CEU)</p> <p><u>Offered at these campuses:</u></p>
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Hospitality and Tourism

Effective School Year 2009-2010

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All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Hotel Management</p> <p>(HOTELMGT) 12421052</p>	<p style="text-align: center;"><u>Hospitality Marketing and Sales</u></p> <p>HAMG 2207 or HAMG 2307 (or HAMG 2007 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Introduction to Travel and Tourism</p> <p>(INTTRVTO) N1242055</p>	<p style="text-align: center;"><u>Introduction to Travel and Tourism</u></p> <p>TRVM 1300 (or TRVM 1000 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Introduction to Travel and Tourism (INTTRVTO) N1242055</p> <p style="text-align: center;">AND</p> <p>Travel and Tourism Marketing</p> <p>(TRAVTOUR) 12421055</p>	<p style="text-align: center;"><u>Introduction to Travel and Tourism</u></p> <p>TRVM 1300 (or TRVM 1000 CEU)</p> <p style="text-align: center;">AND</p> <p style="text-align: center;"><u>Travel and Tourism Sales and Marketing Techniques</u></p> <p>TRVM 1345 (or TRVM 1045 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Culinary Arts I (2-3 credits) (CULART-1) N1220501</p>	<p style="text-align: center;"><u>Food Preparation I</u></p> <p>IFWA 1401 or IFWA 1501 (or IFWA 1001 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Basic Food Preparation</u></p> <p>CHEF 1301 or CHEF 1401 <u>OR</u> CHEF 1200 and CHEF 1201 (or CHEF 1001 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Sanitation and Safety</u></p> <p>CHEF 1205 or CHEF 1305 <u>OR</u> CHEF 1104 and CHEF 1105 (or CHEF 1005 CEU)</p> <p><u>Offered at these campuses:</u></p>

<p><u>College Course Outcomes</u> PL/Food Production, Management, and Services I (2-3 credits) (FDPMS-1) 12205221</p>	<p><u>Food Preparation I</u> IFWA 1401 or IFWA 1501 (or IFWA 1001 CEU) OR</p> <p><u>Basic Food Preparation</u> CHEF 1301 or CHEF 1401 <u>OR</u> CHEF 1200 and CHEF 1201 (or CHEF 1001 CEU) OR</p> <p><u>Sanitation and Safety</u> CHEF 1205 or CHEF 1305 <u>OR</u></p> <p>CHEF 1104 and CHEF 1105 (or CHEF 1005 CEU)</p> <p><u>Offered at these campuses:</u></p>
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Human Services

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

Housing (HOUSING) 12208210 and Interior Design (INTR-DSG) 12208310 are now listed in the Architecture and Construction cluster.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Child Care and Guidance, Management, and Services I (2-3 credits)</p> <p>(CHD-CR-I) 12203421</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Application of guidance intervention with a child ▪ Prepare DAP schedule, routines, transitions 	<p><u>Child Guidance</u> CDEC 1319 or CDEC 1419 (or CDEC 1019 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Curriculum Resources for Early Childhood Programs</u> CDEC 1313 or CDEC 1413 (or CDEC 1013 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Child Development Associate Training II</u> CDEC 2322 (or CDEC 2022 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Child Development Associate Training III</u> CDEC 2324 (or CDEC 2024 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Early Childhood Professions I (2-3 credits)</p> <p>(ECP-I) N1220301</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Application of guidance intervention with a child 	<p><u>Child Guidance</u> CDEC 1319 or CDEC 1419 (or CDEC 1019 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Child Development Associate Training II</u> CDEC 2322 (or CDEC 2022 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Early Childhood Professions II (2-3 credits)</p> <p>(ECP-II) N1220302</p>	<p><u>Curriculum Resources for Early Childhood Programs</u> CDEC 1313 or CDEC 1413 (or CDEC 1013 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Child Development Associate Training III</u></p>

<p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Multi-cultural enhancement/variety of learning environments and aesthetic 	<p>CDEC 2324 (or CDEC 2024 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Child Development (½ credit) (CHLD-DEV) 12203310</p> <p style="text-align: center;">AND</p> <p>Preparation for Parenting (½ credit) (Human Services Cluster)</p> <p>(PREP-PAR) 12203210 (THIS COURSE IS LISTED IN THE HUMAN SERVICES CLUSTER.)</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Application of guidance intervention with a child 	<p><u>Child Guidance</u> CDEC 1319 or CDEC 1419 (or CDEC 1019 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Child Development Associate Training II</u> CDEC 2322 (or CDEC 2022 CEU)</p> <p><u>Offered at these campuses:</u></p>

Information Technology

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Business Computer Information Systems I (BEGBCIS1) 12011200</p> <p><i>Prerequisite:</i> Keyboarding course or skill proficiency</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Utilize the internet to research information ▪ Learn to use browser and search hyperlink capabilities ▪ Demonstrate strategies for merging and integrating data for multiple applications ▪ Explain the impact of computers on society ▪ Identify the components of the computer ▪ Explore computer careers and discuss current issues associated with security, ethical, and legal issues, and identify fundamental programming structures ▪ Demonstrate proficiency in basic operating system functions ▪ Describe uses of the internet and design a simplistic web page using HTML coding and demonstrate proficiency in the use of email ▪ Demonstrate proficiency in the use of word processing, spreadsheet, database, and presentation applications ▪ Demonstrate a basic understanding of network topology and connections 	<p style="text-align: center;"><u>Computer Applications I</u></p> <p>POFI 1301 or POFI 1401 (or POFI 1001 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Introduction to Computers</u></p> <p>ITSC 1301 or ITSC 1401 (or ITSC 1001 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Business Computer Information Systems II (ADVBCIS1) 12031300</p> <p><i>Prerequisite:</i> Business Computer Information Systems I (BEGBCIS1) 12011200</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Use communication software to perform common tasks either real time or simulated 	<p style="text-align: center;"><u>Integrated Software Applications I</u></p> <p>ITSC 1309 or ITSC 1409 (or ITSC 1009 CEU)</p> <p style="text-align: center;">OR</p> <p style="text-align: center;"><u>Computer Applications II</u></p> <p>POFI 1341 or POFI 1441 (or POFI 1041 CEU)</p> <p style="text-align: center;"><u>Offered at these campuses:</u></p>

<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Word Processing Applications (WDPROAP) 12022800</p> <p><i>Prerequisite:</i> Business Computer Information Systems I (BEGBCIS1) 12011200 or keyboarding course or skill proficiency</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Use file management and current industry terminology 	<p style="text-align: center;"><u>Introduction to Word Processing</u></p> <p>ITSW 1301 or ITSW 1401 (or ITSW 1001 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Telecommunications and Networking (TELE/NET) 12022700</p> <p><i>Prerequisite:</i> Business Computer Information Systems I (BEGBCIS1) 12011200</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Explain the differences between baseband and broadband signaling ▪ Know how hex relates to computer systems and information ▪ List the different network topologies ▪ List the names of the OSI layers ▪ Define the term collision as it relates to CSMA/CD and CSMA/CA ▪ List common NOSs ▪ Identify the application of wireless media to WANS 	<p style="text-align: center;"><u>Fundamentals of Networking Technology</u></p> <p>ITNW 1325 or ITNW 1425 (or ITNW 1025 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Business Image Management & Multimedia (BUSIM/MM) 12022300</p> <p><i>Prerequisite:</i> Business Computer Information Systems I (BEGBCIS1) 12011200</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Create interactive projects ▪ Create graphic animations 	<p style="text-align: center;"><u>Introduction to Computer Graphics</u></p> <p>ARTC 1325 or ARTC 1425 (or ARTC 1025 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Computer Applications</p> <p>(CA) 12341470<i>Prerequisite:</i> Keyboarding course or skill</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Explain the impact of computers on society ▪ Identify the components of the computer ▪ Explore computer careers and discuss current issues associated with security, ethical, and legal issues, and identify fundamental programming structures ▪ Demonstrate proficiency in basic operating system functions 	<p style="text-align: center;"><u>Introduction to Computers</u></p> <p>ITSC 1301 or ITSC 1401 (or ITSC 1001 CEU)</p> <p><u>Offered at these campuses:</u></p>

<ul style="list-style-type: none"> ▪ Describe uses of the internet and design a simplistic web page using HTML coding and demonstrate proficiency in the use of email ▪ Demonstrate proficiency in the use of word processing, spreadsheet, database, and presentation applications ▪ Demonstrate a basic understanding of network topology and connections 	
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Introduction to Computer Maintenance (ICM) 12534504</p> <p><i>Prerequisite:</i> Introductory computer course</p>	<p><u>Introduction to PC Operating Systems</u> ITSC 1305 or ITSC 1405 (or ITSC 1005 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Introduction to Computer Technology</u> CPMT 1303 or CPMT 1403 (or CPMT 1003 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Computer Maintenance Technician I (CTRMNTN) 12534502</p> <p><i>Prerequisite:</i> Introduction to Computer Maintenance (ICM) 12534504</p>	<p><u>Personal Computer Hardware</u> ITSC 1325 or ITSC 1425 (or ITSC 1025 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Introduction to Computer Maintenance</u> CPMT 1311 or CPMT 1411 (or CPMT 1011 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Computer Cabling and Design (CCD) 12534501</p>	<p><u>Telecommunications Transmission Media</u> EECT 1340 or EECT 1440 (or EECT 1040 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Internetworking Technologies I (INTNETI) N1295006</p> <p>Cisco Curriculum</p> <p style="text-align: center;">OR</p> <p>Networking Essentials (NPLUS) N1295009</p> <p>Cisco Curriculum</p> <p><i>*The Cisco Curriculum is in transition and may be changing in the future. The curriculum currently utilized will only be available for one to two years. Cisco approval is only for the courses labeled as Discovery or CCNA 3.1.</i></p>	<p><u>CCNA 1: Networking Basics</u> ITCC 1302 or ITCC 1402 (or ITCC 1002 CEU)</p> <p style="text-align: center;">AND</p> <p><u>CCNA 2: Router and Routing Basics</u> ITCC 1306 or ITCC 1406 (or ITCC 1006 CEU)</p> <p><u>Offered at these campuses:</u></p> <p>ARCHIVE PENDING: 8/31/09 CCNA 1 (ITCC 1302, ITCC 1402, ITCC 1002 CEU) and CCNA 2 (ITCC 1306, ITCC 1406, ITCC 1006 CEU) See WECM for more information</p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Internetworking Technologies II (INTNETII) N1295007</p> <p><i>Prerequisite:</i> Internetworking Technologies I (INTNETI) N1295006 or Networking Essentials (NPLUS) N1295009</p> <p>Cisco Curriculum</p> <p><i>*The Cisco Curriculum is in transition and may</i></p>	<p><u>CCNA 3: Switching Basic and Intermediate Routing</u> ITCC 1342 or ITCC 1442 (or ITCC 1042 CEU)</p> <p style="text-align: center;">AND</p> <p><u>CCNA 4: WAN Technologies</u> ITCC 1346 or ITCC 1446 (or ITCC 1046 CEU)</p> <p><u>Offered at these campuses:</u></p> <p>ARCHIVE PENDING: 8/31/09</p>

<p>be changing in the future. The curriculum currently utilized will only be available for one to two years. Cisco approval is only for the courses labeled as Discovery or CCNA 3.1.</p>	<p>CCNA 3 (ITCC 1342, ITCC 1442, ITCC 1042CEU) and CCNA 4 (ITCC 1346, ITCC 1446, ITCC 1046 CEU) See WECM for more information</p>
<p><u>College Course Outcomes</u> Networking Essentials (NPLUS) N1295009 Non-Cisco Curriculum</p>	<p><u>Fundamentals of Networking Technologies</u> ITNW 1325 or ITNW 1425 <u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Fundamentals of the Internet (INETPLUS) N1295010 <i>Prerequisite:</i> Business Computer Information Systems I (BEGBCIS1) 12011200 or Computer Applications (CA) 12341470</p>	<p><u>Introduction to the Internet</u> ITNW 1337 or ITNW 1437 <u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Database Fundamentals (1 credit) (DATAFUND) N1205011</p>	<p><u>Database Theory and Design (Oracle only)</u> ITSE 1346 or ITSE 1446 <u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Database Programming (1 credit) (DATAPROG) N1205012 <i>Prerequisite:</i> Database Fundamentals (DATAFUND) N1205011</p>	<p><u>Introduction to Oracle SQL</u> ITSE 1345 or ITSE 1445 (or ITSE 1045 CEU) <u>Offered at these campuses:</u></p>

Law, Public Safety, Corrections and Security

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Fundamentals of Criminal Law (FUNCRLA) 12568707</p>	<p style="text-align: center;"><u>Fundamentals of Criminal Law</u> CJSA 1327 <u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Introduction to Criminal Justice (ICJ) 12568708</p>	<p style="text-align: center;"><u>Introduction to Criminal Justice</u> CJSA 1322 <u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Criminal Investigation (1 credit) (CRIMINV) 12568705</p>	<p style="text-align: center;"><u>Criminalistics I</u> CJSA 1308</p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Emergency Communications (1 credit) (ECOM) 12568706</p> <p>(Teacher must hold Telecommunications Instructor Certification)</p>	<p style="text-align: center;"><u>Basic Telecommunications Certification</u> CJLE 1303</p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Correctional Systems and Practices (1 credit) (CORS&P) 12568702</p>	<p style="text-align: center;"><u>Community Resources in Corrections</u> CJCR 2324 (CRIJ 2301)</p>

Manufacturing

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Machine Shop I (MCHSHOP) 12557301</p>	<p style="text-align: center;"><u>Basic Machine Shop I</u> MCHN 1338 or MCHN 1438 (or MCHN 1038 CEU) <u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Machine Shop II (MCHSHOP2) 125573025 <i>Prerequisite:</i> Machine Shop I (MCHSHOP) 12557301</p>	<p style="text-align: center;"><u>Basic Machine Shop II</u> MCHN 1341 or MCHN 1441 (or MCHN 1041 CEU) <u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Welding II (WLDNG2) 12557902</p>	<p style="text-align: center;"><u>Introduction to Welding Fundamentals</u> WLDG 1421 or WLDG 1521 <u>OR</u> WLDG 1221 and WLDG 1222 (or WLDG 1021 CEU) OR <u>Introduction to Shielded Metal Arc Welding (SMAW)</u> WLDG 1428 or WLDG 1528 (or WLDG 1028 CEU) <u>Offered at these campuses:</u></p>

Marketing, Sales and Services

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Entrepreneurship (ENTREPR) 12411920</p>	<p><u>Small Business Management</u> BUSG 2309 (or BUSG 2009 CEU) <u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Principles of Marketing (PRINMKT) 12411921</p>	<p><u>Principles of Marketing</u> MRKG 1311 (or MRKG 1011 CEU) <u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Marketing Management (MKTMGT) 12441241</p>	<p><u>Principles of Marketing</u> MRKG 1311 (or MRKG 1011 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Practicum (or Field Experience) - Business Marketing and Marketing Management</u> MRKG 1x66</p> <p style="text-align: center;">OR</p> <p><u>Cooperative Education - Business Marketing and Marketing Management</u> MRKG 1x80</p> <p style="text-align: center;">OR</p> <p><u>Cooperative Education - Business Administration and Management, General</u> BMGT 1x82</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Marketing Dynamics (MKTDYN) 12441140</p>	<p><u>Principles of Marketing</u> MRKG 1311 (or MRKG 1011 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Practicum (or Field Experience) - Business Marketing and Marketing Management</u> MRKG 1x66</p> <p style="text-align: center;">OR</p> <p><u>Cooperative Education - Business Marketing and Marketing Management</u> MRKG 1x80</p> <p style="text-align: center;">OR</p> <p><u>Cooperative Education - Business Administration and Management, General</u> BMGT 1x82</p>

	Offered at these campuses:
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Science, Technology, Engineering and Mathematics

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Principles of Technology I (1 science unit) (PTI) 12382820 <i>Prerequisite:</i> 1 science credit and Algebra I</p>	<p><u>Applied Physics I</u> SCIT 1318 or SCIT 1418</p> <p style="text-align: center;">OR</p> <p><u>Applied Petrochemical Technology</u> CTEC 1301 or CTEC 1401 (or CTEC 1001 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Electricity/Electronics Technology (EET) 12362670 OR</p> <p><i>PLTW pre-engineering program:</i> Digital Electronics (PLTW) (DE) N1237202</p>	<p><u>Electricity Principles</u> CETT 1402 or CETT 1502 (or CETT 1002 CEU) ARCHIVE PENDING for CETT 1502, 8/31/09, See WECM for more information</p> <p style="text-align: center;">OR</p> <p><u>Electronic Test Equipment</u> INTC 1207 or INTC 1307 (or INTC 1007 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Architectural Graphics (AG) 12362620</p> <p style="text-align: center;">OR</p> <p>Engineering and Architectural Drafting (EAD) 12511103</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> • Demonstrate the ability to comprehend and apply all standard drawing scales and read architectural, engineering, mechanical, and metric scale instruments. 	<p><u>Architectural Drafting - Residential</u> DFTG 1317 or DFTG 1417 (or DFTG 1017 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Engineering Graphics (EG) 12362630</p> <p style="text-align: center;">OR</p>	<p><u>Technical Drafting</u> DFTG 1305 or DFTG 1405 (or DFTG 1005 CEU)</p> <p style="text-align: center;">OR</p> <p><u>Basic Computer-Aided Drafting</u></p>

<p><i>PLTW pre-engineering program:</i> Introduction to Engineering Design (IED) N1237201</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Be able to demonstrate technical sketching and technical board drafting and apply them in problem-solving techniques. ▪ Be able to transfer sketching and board drafting as problem-solving techniques in Basic CAD. 	<p>DFTG 1309 or DFTG 1409 (or DFTG 1009 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Technical Introduction to Computer-Aided Drafting (TICAD) 12511705</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Be able to demonstrate technical sketching and technical board drafting and apply them in problem-solving techniques. ▪ Be able to transfer sketching and board drafting as problem-solving techniques in Basic CAD. 	<p><u>Technical Drafting</u> DFTG 1305 or DFTG 1405 (or DFTG 1005 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Engineering Computer-Aided Drafting I (ECAD) 12511701</p>	<p><u>Basic Computer-Aided Drafting</u> DFTG 1309 or DFTG 1409 (or DFTG 1009 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Civil Engineering and Architecture (CEA) N1237206</p> <p>ENHANCEMENTS:</p> <ul style="list-style-type: none"> ▪ Generate and interpret standard civil engineering plans and profile drawings. ▪ 	<p><u>Civil Drafting</u> DFTG 2330 or DFTG 2430 (or DFTG 2030 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p><u>College Course Outcomes</u> Computer Integrated Manufacturing (CIM) N1237204</p>	<p><u>Computer Integrated Manufacturing</u> INMT 1311 or INMT 1411(or INMT 1011 CEU)</p> <p><u>Offered at these campuses:</u></p>

Transportation, Distribution and Logistics

Effective School Year 2009-2010

To indicate statewide articulated courses on a student's AAR, use special course explanation code "A".

Courses in an articulated coherent sequence may be taken at any grade level (9-12) as long as the final course in the articulated coherent sequence is taken in grade 11 or 12.

All Automotive Technician II courses will be coded with the same PEIMS number (12579103). The differentiation will be dependent on which certification the student receives in the course.

All high school courses **must** include enhanced content equivalent to the college courses indicated, and are a minimum of one (1) high school credit unless otherwise noted.

High School Course	College WECM Equivalent
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Automotive Technician II (AUTOTEC2) 12579103</p> <p>Non-NATEF Curriculum</p> <p><i>Prerequisite:</i> Automotive Technician I (AUTOTECH) 12579102 or Automotive Specialization (AUTOSPEC) 12579101</p>	<p><u>Introduction and Theory of Automotive Technology</u> AUMT 1201 or AUMT 1301</p> <p style="text-align: center;">AND</p> <p><u>Introduction to Automotive Technology</u> AUMT 1305 or AUMT 1405 (or AUMT 1005 CEU)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Automotive Technician II (AUTOTEC2) 12579103</p> <p>NATEF Curriculum – Suspension and Steering. Must complete minimum NATEF-required hours of instruction.</p> <p>AND</p> <p>ASE Certification in Steering and Suspension</p>	<p><u>Automotive Suspension and Steering Systems</u> AUMT 1316 or AUMT 1416 (on AUMT 1016 CEU) (Non-manufacturer-specific program)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Automotive Technician II (AUTOTEC2) 12579103</p> <p>NATEF Curriculum – Brakes. Must complete minimum NATEF-required hours of instruction.</p> <p>AND</p> <p>ASE Certification in Brakes</p>	<p><u>Automotive Brake Systems</u> AUMT 1310 or AUMT 1410 (or AUMT 1010 CEU) (Non-manufacturer-specific program)</p> <p><u>Offered at these campuses:</u></p>
<p style="text-align: center;"><u>College Course Outcomes</u></p> <p>Diesel Mechanics II</p> <p>(DSLSMEC2) 12579502 <i>Prerequisite:</i> Diesel Mechanics I (DSLSMECH) 12579501</p>	<p><u>Shop Safety and Procedures</u> DEMR 1301 or DEMR 1401 (or DEMR 1001 CEU)</p> <p><u>Offered at these campuses:</u></p>