



Participant Workbook

Infusing Rigor, Relevance, and Relationships in Academic & Career Education

Welcome!



The **Program of Study Implementation Toolkit** offers four, self-paced modules that provide information about the essential elements for beginning the process required under the Carl D. Perkins Act. Each module is designed to provide awareness of the specific topic while reinforcing the interrelation of all four topics and their connection to successful development of programs of study.

Module topics include:

- Understanding the Career Clusters Framework
- Facilitating Successful Student Transitions
- Infusing Rigor, Relevance, and Relationships in Academic and Career Education
- Integrating Career and Academic Education

What's in Your Toolkit

Downloadable and reproducible materials include a Participant Workbook and Participant Evaluation. It is important for you to download and print these materials to use while viewing the presentation online.

The **Participant Workbook** materials supplement the PowerPoint slides for each module. You will need to refer to your workbook throughout the module. The workbook includes note pages for the PowerPoint slides and the exercises to be completed as well as handouts related to the exercises and for further reading. **Appendices** included in the workbook provide an overall **glossary** of terms used in all four modules as well as a list of **resource links** with brief explanations as to what information each offers.

Please complete the **Participant Evaluation**, either by **downloading** the pdf version or by filling out and submitting the online version. Both can be accessed at www.mcce.org. Your feedback assists the Missouri Center for Career Education in future development of materials for educators.

Where to Find Additional Assistance

For additional assistance, contact MCCE at 660-543-8768 or www.mcce.org. MCCE Career Education Coordinators and/or Missouri Tech Prep Coordinators may be available (as their schedules permit) to present Career Clusters Framework Toolkit modules.

Other professional development services, ranging from two-hour presentations to full-day workshops to year-long residency programs, are available through MCCE for an affordable fee.

Table of Contents



Module Slides 2

Module Exercises 19

- Exercise 1: Balancing Rigor, Relevance, Relationships 20
- Exercise 2: Identifying Rigor, Relevance, Relationships..... 22
- Exercise 3: Creating Your Personal Action Plan 23

Handouts 24

- Devin’s Story 25
- Student Handbook Excerpt..... 27

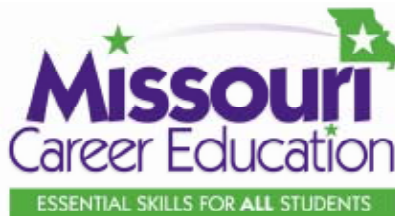
Participant Evaluation..... 33

Appendices..... 35

- Appendix A: Glossary..... 36
- Appendix B: Resource Links..... 40



Module Slides



Module Slides



Infusing Rigor, Relevance, and Relationships in Academic & Career Education

Table of Contents

- Rigor, Relevance, and Relationships, and Student Success
- The Impact on Learning of Relationships, Rigor, and Relevance
- Rigor, Relevance, and the Career Clusters Framework

1

Module Objectives

This module will help you:

- Understand the importance of relationships and how they are established in school systems
- Define rigor and how schools ensure rigorous instruction
- Specify the rationale for and how to create relevance in classrooms
- Identify how to incorporate relationships, rigor, and relevance into the Career Clusters Framework

2

Module Slides



Module Overview



- Rigor, Relevance, and Relationships, and Student Success
- The Impact on Learning of Relationships, Rigor, and Relevance
- Rigor, Relevance, Relationships, and the Career Clusters Framework



3



Rigor, Relevance, and Relationships and Student Success



- This section covers:
- Meaningful, challenging instruction and feeling connected
 - Understanding challenging concepts in application
 - The support of relationships for learning
 - Opportunities for high-level thinking and challenging content

“Children learn best if they are immersed in complex experiences and are given the opportunity to actively process what they have learned.”

Renata Nummela Caine

4

Module Slides



Meaningful, Challenging Instruction & Feeling Connected



From Devin's Story:

Devin begins the conversation: "I don't see what the big deal is. I don't really need to know these subjects. They are boring. Besides, at Tech they tell me I'm doing great. In fact, they tell me I'm the best they have seen in a while and that they will write me letters to get into IT."



"Traditional" school is *boring* to students who crave **relevance**. The answer to, "Why do I need to learn this?" is not, "Because I said so." The answer is to link the learning to relevant work that interests the students. Clearly, that's what's going on at Tech. Devin is not bored—he is excelling in his work there because it is meaningful (**relevant**), challenging (**rigorous**), and because he feels connected to the content and the teachers (**relationships**).

5

Understanding Challenging Concepts in Application



From Devin's Story:

Devin's father, angry and confused, speaks up: "I don't understand how you can excel in a technical field, and that is what he says he is being told by his teachers at Tech, but he failing Geometry and Science. What is going on here?"



Devin clearly seeks **relevance** in his academic studies. He needs to understand how his book-learning will apply to real life. Devin can understand challenging concepts in application, but is bored by academic abstraction.

6

Module Slides



The Support of Relationships for Learning



From Devin's Story:

The assistant principal asks Devin to step back into the office. "Devin," he asks, "what do you think caused your performance in geometry and biology to decline so much in the second quarter? Your first quarter grades, all C's, were not stellar but they were not failing like they are now."

"I don't know," replies Devin. "I told you these high school courses are boring. There's a lot of reading, and I don't like to read that much. I read a couple of pages and can't remember what I have just read. How am I ever going to learn if that happens?"



Devin is capable of applying the concepts in the challenging material, which he has proven at Tech. His diagnosed learning disability and his own preferences indicate that reading is a challenge.

There are many ways to learn, many channels for intake of information. Devin needs **the support of relationships** to offer multiple pathways for learning information. But he also craves the opportunity to apply the concepts — **the relevance that makes rigor possible**.

His **relationships** with the staff at Tech motivate Devin to achieve.

7

Opportunities for High-level Thinking and Challenging Content



From Devin's Story:

The core problem, it seems to the assistant principal, is not that multiple curriculums exist. In fact, varied courses of study are enriching. The problem, it seems, is that even after tracking, there are biases at play in who gets what curriculum. Furthermore, the curricular options are built on terribly diminished and self-fulfilling assumptions about the cognitive capacity of technical students.



Every subject matter contains the opportunity for "high-level" thinking and challenging content. All students deserve to learn challenging content — including those who like to work with their hands.

Powerful learning is both "head work and hand work."

8

Module Slides





The Impact on Learning of Relationships, Rigor, and Relevance




This section covers:


- Relationships
- Rigor
- Relevance
- Balancing all three factors

“The great waste in the school comes from the child’s inability to utilize the experiences he gets outside of school in any complete and free way within the school itself; while on the other hand, the child is unable to apply in daily life what he is learning at school.”

John Dewey 9


The Importance of Relationships





“No significant learning occurs without a significant relationship.”

James Comer



Relationships:

- Connect students to school
- Fill a need for social interaction
- Form “bridges” from:
 - Middle school to high school
 - High school to postsecondary education or quality employment

10



Module Slides



The Importance of Rigor



Rigor is when something is challenging and complex.

Rigorous instruction demands that students learn to perform at proficient and advanced levels on high-stakes assessments. Rigor involves:

- Aligning learning objectives and assessments to standards
- Targeting instruction within the ZPD “Zone of Proximal Development”
- Promoting complex, sophisticated thought



11

The Importance of Relevance



Relevance provides context.

Relevance:

- Answers, “Why do we have to learn this?”
- Links to “now”
- Connects present lessons to past lessons, creating and reinforcing neural pathways in the brain



12

Module Slides



Balancing Rigor, Relevance, and Relationships

For example: Consider the learning activity, "Compare the literary style of two different authors." What level of rigor, relevance, and relationships does this activity reflect?

(Level)	Rigor	Relevance	Relationships
HIGH	X Requires analysis (complex thinking)		
↑	Task does not specify an application or real-world connection		Assignment to be completed by an individual in isolation
LOW		X	X

Missouri Career Education 13

Exercise 1: Balancing Rigor, Relevance, Relationships

Objective: Rank the level of rigor, relevance, and relationships in learning activities.

Instructions:
In your workbook (on page 20), complete the chart by ranking the level of rigor, relevance, and relationships (as either "high," "medium," or "low") in each of the following learning activities:

1. Read a recipe for making bread.
2. Plot the coordinates for a quadrilateral on a grid.
3. Work with a team to collect data and make recommendations to address an environmental concern.
4. Use tessellation to create an original artistic design.
5. Write and direct a one-act play.
6. Memorize the Periodic Table of Elements.
7. Discuss, in a small group, how the events in a novel relate to nonfiction current events.
8. Create a collage illustrating positive and negative space.
9. Mentor an elementary student learning to speak simple Mandarin Chinese conversational phrases.
10. Work in a crew to design and construct a garden shed.


Next-Step Activity:
Share this activity with others in your school/district. Discuss with them the following:

- What did you notice about the low-rigor learning activities?
- What did you notice about the high-relationship activities?
- How might the level of relevance in a learning activity affect both rigor and relationships?


Missouri Career Education 14

Module Slides





Rigor, Relevance, Relationships and the Career Clusters Framework



This section covers:


- **Definitions** of rigor, relevance, and relationships within the Career Clusters Framework
- **Links** between rigor, relevance, and relationships and the elements of the Career Clusters Framework
- **Tools** within the Career Clusters Framework for infusing rigor, relevance, and relationships

"The best way to learn is not through lecture, but by participation in realistic situations that let learners try new things in safe environments."


Willard Daggett

15

Definitions within the Career Clusters Framework



- **Rigor** — Learning experiences in which students demonstrate a thorough, in-depth mastery of challenging tasks that foster cognitive skills
- **Relevance** — Learning experiences in which students apply core knowledge, concepts, or skills to solve real-world problems
- **Relationships** — Four critical learning connections formed among:
 1. Students, parents, peers
 2. Staff members
 3. Teachers with others in their profession
 4. Schools and communities (parents, businesses, community leaders)



16

Module Slides



Links between Rigor/Relevance/Relationships & the Career Clusters Framework



Career Clusters Framework Element	Demonstrates Rigor	Demonstrates Relevance	Demonstrates Relationships
Career Clusters	X	X	X
Programs of Study	X	X	X
Transitions	X	X	X
Integration	X	X	X
Personal Plan of Study	X	X	X



17

Career Clusters Tools for Infusing Rigor, Relevance, & Relationships



Tools for infusing rigor:

- Programs of study
- Course alignment to GLEs/CLEs, standards, knowledge & skills statements
- College readiness skill preparation
- Advanced courses
 - ✓ Dual credit/dual enrollment
 - ✓ Advanced placement
 - ✓ International Baccalaureate (IB)
- Capstone experiences



18

Module Slides



Career Clusters Tools, Continued



For infusing relevance:

- Career clusters
- Personal plans of study
- Integration of academic and career-technical education
- Work-based learning/work-site learning
- Tech prep
- Active learning instructional strategies
- Project-based learning & problem-based learning
- Career-based learning



19

Career Clusters Tools, Continued



For infusing relationships:

- Individual, person-to-person activities
- Programs or programmatic efforts
- Institutions or organization-wide operational initiatives
- Consortia, or cross-institution cooperative agreements



20



Module Slides



Tools – Relationships: Individual, Person-to-Person Activities



- Active listening
- Taking interest
- Showing respect
- Making frequent contact
- Demonstrating encouragement
- Avoiding “put downs”
- Displaying student work
- Identifying unique talents
- Celebrating accomplishments
- Serving as a role model
- Communicating on a one-to-one basis
- Showing enthusiasm
- Using positive humor



21

Tools – Relationships: Programs, Programmatic Efforts



- Programs that **build emotional intelligence**:
 - Character education
 - Service learning
- Programs that **facilitate academic transitions**:
 - Summer Bridge & freshman transition courses
 - Advisement & advisory periods
 - Personal plans of study
 - Mentoring
- Programs that **apply academics to career opportunities**:
 - Integrated academic/CTE courses
 - Career Clusters Framework



22

Module Slides



Tools – Relationships: Organization-wide Operational Initiatives



- Small Learning Communities
- Professional Learning Communities
- Making Middle Grades Work
- High Schools That Work
- Technology Centers That Work
- Project Lead the Way
- Model Schools Initiative

Note:
For more information on these initiatives, check out the links at the end of this presentation.



23

Tools – Relationships: Cross-Institution Cooperative Agreements



Various institutions can collaborate to create structures that facilitate relationship building, such as:

- **Events/Activities:**
 - Orientation to middle school
 - Pre-enrollment advisory
 - High school orientation
 - Postsecondary campus tour
- **Policies/Agreements**
 - Articulation agreements
 - Dual credit/dual enrollment courses
 - Transfer policies
- **Career Goal Implementation Plans**
 - Personal plan of study
 - Career Clusters Framework
 - Programs of study



24

Module Slides



Developing Action Plans

For more help developing action plans that enhance rigor, relevance, and relationships in your institution/district, contact:

- Missouri Center for Career Education — www.mcce.org
- Department of Elementary and Secondary Education — www.dese.mo.gov

27

Additional Resources

- Career Clusters — www.careerclusters.org
- High Schools That Work — <http://www.sreb.org/Programs/hstw/hstwindex.asp>
- Model Schools Initiative (International Center for Leadership in Education) — www.leadered.com
- Project Lead the Way — www.pltw.org
- Missouri Connections — <http://www.missouriconnections.org/>
- Missouri Center for Career Education — <http://missouricareereducation.org/>
- Missouri Department of Elementary and Secondary Education — www.dese.mo.gov

28

Module Slides



Infusing Rigor, Relevance, and Relationships: Module Review

- “Traditional” school is boring to students who crave relevance. The answer is to link learning to relevant work that interests the students.
- Once “hooked” with learning that is relevant, students can be challenged with rigorous content that meets academic and industry standards and promotes complex, sophisticated thinking.
- Relationships help students feel connected to school and form “bridges” from middle school to high school as well as from high school to post-secondary education or employment.

Missouri Career Education 29

Infusing Rigor, Relevance, and Relationships: Module Review

- In addition to student-school relationships, other relationships bear on the success of programs that support student transitions. These include relationships among staff members, between teachers and others in their profession, and between schools and their communities (e.g., parents, businesses, community leaders).
- Elements of the Career Clusters Framework support rigor, relevance and relationships: Programs of study support rigor; personal plans of study link to relevance; and transitions and integration are forged through relationships.

Missouri Career Education 30

Module Slides



“Research consistently supports that practice and actually using knowledge leads to the greatest retention and learning.”

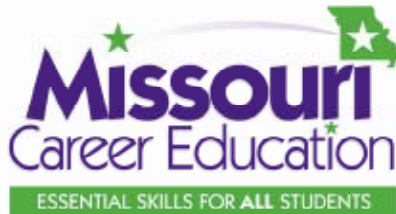
Source: Willard Daggett







Module Exercises



Exercise 1: Balancing Rigor, Relevance, Relationships



Objective:

Rank the level of rigor, relevance, and relationships in learning activities.

Instructions:

Complete the chart below by ranking the level of rigor, relevance, and relationships (as either “high,” “medium,” or “low”) in each of the following learning activities:

Learning Activity	Rigor (High, Medium, Low)	Relevance (High, Medium, Low)	Relationships (High, Medium, Low)
1. Read a recipe for making bread.			
2. Plot the coordinates for a quadrilateral on a grid.			
3. Work with a team to collect data and make recommendations to address an environmental concern.			
4. Use tessellation to create an original artistic design.			
5. Write and direct a one-act play.			
6. Memorize the Periodic Table of Elements.			
7. Discuss, in a small group, how the events in a novel relate to nonfiction current events.			
8. Create a collage illustrating positive and negative space.			
9. Mentor an elementary student learning to speak simple Mandarin Chinese conversational phrases.			
10. Work in a crew to design and construct a garden shed.			

Next-Step Activity:

Share this activity with others in your school/district. Discuss with them the following:

- What did you notice about the low-rigor learning activities?
- What did you notice about the high-relationship activities?
- How might the level of relevance in a learning activity affect both rigor and relationships?

Record your answers on the following page.

Exercise 1

Next-Step Activity Responses



What did you notice about the low-rigor learning activities?

What did you notice about the high-relationship activities?

How might the level of relevance in a learning activity affect both rigor and relationships?

Exercise 2: Identifying Rigor, Relevance, Relationships



Objective:

Utilize district publications (print or online) to identify existing programs offering rigor, relevance, and relationships.

Instructions:

Review the student handbook excerpt on pages 27 through 32. Highlight evidence of the following and put an “X” in the boxes below if those programs reflect rigor, relevance, and/or relationships.

Programs Described in the Student Handbook Excerpt	Indicates Rigor	Indicates Relevance	Indicates Relationships
Activities/clubs/student life			
Service learning/community service			
Internships/practicum			
Parent/teacher meetings			
International Baccalaureate (IB)			
Tutoring strategies			
Advanced placement			

Next-Step Activity:

Look at the student handbook for your institution/district.

What evidence is there of rigorous learning, relevant experiences, and programs that enhance relationships? Complete the same table for your institution below.

Programs Described in Your Institution’s Student Handbook	Indicates Rigor	Indicates Relevance	Indicates Relationships
1.			
2.			
3.			
4.			
5.			
6.			
7.			

Discuss what you find with others at your institution.

Exercise 3: Creating Your Personal Action Plan



Objective:

Develop a personal action plan to improve rigor, relevance, and relationships at a specific institution.

Instructions:

Complete at least two items per category below. Then, list two to three action steps that you can personally take within the next four weeks to facilitate each of your suggestions.

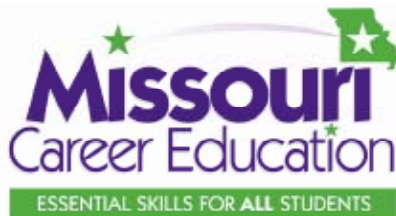
The rigor in my institution would improve if only...	The relevance in my institution would improve if only...	The relationships in my institution would improve if only...
Item A: _____ Action Steps: 1. 2. 3.	Item A: _____ Action Steps: 1. 2. 3.	Item A: _____ Action Steps: 1. 2. 3.
Item B: _____ Action Steps: 1. 2. 3.	Item B: _____ Action Steps: 1. 2. 3.	Item B: _____ Action Steps: 1. 2. 3.

Next-Step Activity:

Meet with teachers and others at your institution to brainstorm improvements to rigor, relevance, and relationships. Together, create a team action plan for implementing the improvements you agree on.



Handouts



Devin's Story



A Story about Career and Technical Education

Devin, a sophomore at one of the high schools in St. Louis County, is sitting in the high school's assistant principal's office with his parents, Mr. and Mrs. Smith. The topic for discussion: Devin's declining school performance. The last semester of his freshmen year, Devin received Ds in Algebra I, Physical Science, and Language Arts. This semester, he is failing those subjects.

Devin begins the conversation: "I don't see what the big deal is. I don't really need to know these subjects. They are boring. Besides, at Tech they tell me I'm doing great. In fact, they tell me I'm the best they have seen in a while and that they will write me letters to get into IT."

As a sophomore, Devin attends classes for a half day at his home high school within the district in which his family lives and pays taxes. The other half day, Devin is enrolled in Technical Education Exploration, TEE, a one-year exploratory program that allows him to explore two of four career clusters. The four choices are Business & Graphics, Construction, Medical & Human Services, and Technology. Devin has chosen Business & Graphics and Technology. He is interested in computers but also precision machining.

"But Devin," counters the assistant principal, "how can you be successful at any of those fields you are interested in with failing grades in mathematics and science here at this school? Those areas require math abilities, geometry, trigonometry, and in IT, algorithms. Right now you're a long way off from taking our upper-level mathematics courses. You can't build many machines without a knowledge of physics and trigonometry and that requires Algebra skills, in which you have not shown proficiency."

Devin's father, angry and confused, speaks up: "I don't understand how you can excel in a technical field, and that is what he says he is being told by his teachers at Tech, but be failing Geometry and Science? What is going on here?"

The assistant principal asks Devin to step outside for a moment. When the administrator returns, Devin's mom makes the following statement to Devin's father...

"Look, Frank, this is the first time in a long time that Devin has experienced any success in a school setting. What with his learning disability, there have been times that I never thought he would want to attend or participate in anything that had to do with school. He likes Tech. They give him the time to do projects that interest him. Maybe it's a place where he can find some success..."

"That may be true, Mrs. Smith," the assistant principal replies, "but if Devin's performance does not improve here, he can count on the following things occurring; first, possibly not having enough credits to attend Tech or graduate on time. Also, you can plan on Devin spending at least a year in remedial coursework at any postsecondary program he plans on attending – say, at St. Louis Community College or Ranken. And, we know that kids who have to spend time taking remedial coursework often drop out of college within the first year."

Devin's Story, Continued



The assistant principal asks Devin to step back into the office. “Devin,” he asks, “what do you think caused your performance in Geometry and Biology to decline so much in the second quarter? Your first quarter grades, all Cs, were not stellar but they were not failing like they are now.”

“I don’t know,” replies Devin. “I told you these high school courses are boring. There’s a lot of reading, and I don’t like to read that much. I read a couple of pages and can’t remember what I have just read. How am I ever going to learn if that happens?”

“I don’t know either, Devin,” his exasperated father responds, “but you’re obviously not trying hard enough.”

Devin’s mother throws a disconcerting look at her husband’s low level of tolerance.

“I’m trying as hard as I can, Dad. Look, at TEE we don’t have to read long textbooks, and we can’t do homework ’cause I can’t take the machines home. I still don’t see what math and science at this school have to do with the projects I get to do at Tech.”

The assistant principal has heard these student-parent conversations before and knows that young people like Devin who find little interest in the traditional high school curriculum can be intrigued by the world of work. Devin is this kind of student. His freshman grades and fall semester sophomore grades and excitement for real-world learning show it.

A program like graphic design or precision machining might catch him —keep him in school and aid him in fashioning an occupation. It might give him a chance to forge a career pathway for himself. The big question the assistant principal wonders is what awaits Devin? Would it be a restricted pathway that defined him and the trade he would choose in the narrowest of intellectual as well as economic terms? Or a pathway that consists of a curriculum that ensures curiosity and the ability to learn. And, while situated in a particular trade, will he seek connections to writing, to mathematics, to science, to economics.

The core problem, it seems to the assistant principal, is not that multiple curriculums exist. In fact, varied courses of study are enriching. The problem it seems is that, even after tracking, there are biases at play in who gets what curriculum. Furthermore, the curricular options are built on terribly diminished and self-fulfilling assumptions about the cognitive capacity of technical students. After a while, a short “while” in Devin’s case, they figure out whose mind is certified by their high school and whose future is not.

It is tough, the assistant principal thinks, to be a sophomore in high school and have to define yourself either in compliance or rejection of an institution’s dynamics.

Student Handbook Excerpt



STUDENT HANDBOOK

Academic/Career & Technical High School Belief Statements:

MISSION STATEMENT

Our mission is to create a positive, caring environment where all students can learn the skills essential for a successful life in a diverse, democratic society.

GOALS

Academic/Career & Technical High School students will:

- Seek academic excellence.
- Respect self, others, and the environment.
- Communicate effectively.
- Process information to solve problems independently and cooperatively.
- Apply technology competently
- Develop personal wellness practices.

A+ SCHOOLS GRANT PROGRAM

The A+ Schools Program provides financial incentive to qualified A+ graduates to continue their education beyond high school. A+ graduates may be eligible to receive reimbursement for the cost of tuition and general fees while attending a Missouri public community college or vocational/technical school on a full-time basis. It is recommended that all students enroll in the A+ Schools Program and work toward graduating with A+ status. To graduate with A+ status a student must meet ALL of these requirements:

- Attend a designated A+ School for three consecutive years (grades 10-12) prior to high school graduation.

- Graduate with an unweighted cumulative GPA of 2.5 or higher on a 4.0 scale.
- Graduate with at least 95% ADA (Average Daily Attendance) for grades 9-12.
- Perform and document 50 hours of unpaid district tutoring or mentoring coordinated through the A/C&THS A+ Office.
- Maintain a record of good citizenship and avoid the unlawful use of drugs and alcohol.
- Apply for non-payback scholarships by completing the FAFSA (Free Application for Federal Student Aid).

To sign up for the A+ Schools program, pick up an A+ Agreement from the Guidance Office or the A+ Office.

ACADEMIC LETTER

Any full-time student with a full schedule of classes who has attained at least a 4.0 cumulative grade point average during any semester will receive an academic letter. Fall semester qualifiers will be recognized in the spring at the Academic Achievement Awards ceremony. Spring qualifiers will be recognized during the following year's ceremony.

ADVANCED STUDIES AND RECOGNITION PROGRAM

The Advanced Studies and Recognition Program is based on the premise that the school system has a responsibility (1) to challenge highly motivated and talented students, (2) to increase students' opportunity for admission to leading postsecondary institutions,

Student Handbook Excerpt, Continued



ACTIVITY AND ATHLETIC INFORMATION

Activity Programs

Clubs are an important part of student life and the school's educational program. Clubs stimulate interest in different fields. They provide friendships with others who have the same interest. They help promote a feeling of belonging to the school. In order to keep enthusiasm within the club, the student should support the organization to which he/she belongs.

A/C&THS endorses and sponsors these Missouri State High School Activities Association (MSHSAA) sanctioned activities and athletics:

- Cheerleading
- Choirs
- Dance Team
- Flag Guard/Winter Guard
- International Thespian Society
- Marching Band
- Orchestra
- Symphonic Band
- Scholar Bowl Team

Athletic Programs

Boys: Baseball, Basketball, Cross Country, Football, Golf, Soccer, Swim/Dive, Tennis, Track and Field, Wrestling

Girls: Basketball, Cross Country, Golf, Gymnastics, Soccer, Softball, Swim/Dive, Tennis, Track and Field, Volleyball

(3) to enhance the students' possibilities for receiving placement and credit in college for advanced work completed in high school, and (4) to provide recognition for achievement which will increase the chances for financial aid toward postsecondary studies.

The Advanced Studies and Recognition Program encompasses the following:

- Honors courses
- College courses for credit
- Advanced Placement (AP)
- International Baccalaureate Program

Courses taken in the Advanced Studies and Recognition Program receive extra weight in the grading system. Students enrolled in the Advanced Studies/AP courses receive a weighted value of .50 on a 4.0 scale. Students enrolled in the IB and AP courses will receive a weighted value of 1.0 on a 4.0 scale. Students enrolled in college credit or Honors courses receive a weighted value of .66 on a 4.0 scale. Students enrolled in IB and AP courses are required to take IB/AP exams to receive weight in the course.

REQUIRED PROJECTS

Some courses have required projects. A required project is defined as one of such importance that it must be completed if credit for the course is to be given. Failure to complete a required project will result in a semester grade of F.

Student Handbook Excerpt, Continued



NATIONAL HONOR SOCIETY

The Academic/Career & Technical High School Chapter of National Honor Society is a duly chartered and affiliated chapter of this prestigious national organization. Membership is open to those students who meet the required standards for selection established by the national office of NHS in four areas of evaluation: scholarship, leadership, service, and character.

STUDENT SENATE

The A/C&THS Student Senate is the governmental body for the building. Members include the President, Vice-President, Secretary, Treasurer, Historian, and senators from each grade. The purposes of this organization are to establish a working relationship between the student body and the administration; to develop a forum for student voice and channels for student involvement; to provide evidence of good citizenship, scholarship, and leadership; and to provide orderly direction for school activities.

ATTENDANCE AND TARDIES

Regular attendance is an important responsibility of the student's life. Poor attendance is the greatest contributing factor to school failure.

ARRIVAL AT SCHOOL

When entering the building in the morning, students should gather all necessary materials for the first period class.

- Students may go to their first period classroom or to the Commons where they will be allowed to visit and/or study until class time.
- Only students who wish to study may enter the Media Center before school.

The Media Center is a quiet area at all times.

- Standing in groups in the halls blocks the normal traffic flow and creates the problems of running, pushing, and loud unnecessary talking; therefore, students are to move into rooms and not stand in the hallways.

POSTSECONDARY INSTITUTION VISITS

Juniors and seniors will be allowed verified postsecondary institution visits. These visits are excused absences, but are NOT classified as a school activity when calculating outstanding attendance eligibility. Forms can be picked up in the Attendance Office.

EIGHTH SEMESTER ATTENDANCE REQUIREMENT

A limited number of seniors who qualify will be allowed to leave campus the eighth semester and continue their education in a program to meet the eighth semester attendance rule in one of six ways:

- The student who enrolls in a college or vocational school. A student attending college must submit proof of enrollment of twelve (12) college hours. A student attending college must have a high school average of 2.5. A student attending a vocational school must submit proof of enrollment for a minimum of four (4) hours of instruction per day.
- The student who enters the Armed Services.
- The student who is allowed to work full-time providing the job appears to have a reasonable opportunity to

Student Handbook Excerpt, Continued



be a profitable experience. (See guidance counselors for program requirements.)

- The student is a parent or future parent. The student must provide a written statement explaining the circumstances necessitating early graduation.
- The student who is married and is responsible for the management of the home.
- The student who has a 92 percent attendance record over the previous two semesters. (No more than eight days of absence per semester.)

The student who successfully meets the above requirements during the eighth semester of school will be eligible for graduation. It is further understood that a student will forfeit the right to graduate with the class if he or she fails to notify the school of a change in the original agreement to leave campus the eighth semester. The high school principal or his designee will conduct a conference with each applicant and the parent or legal guardian prior to the approval of the application.

INTERNSHIPS/PRACTICUM

Some A/C&THS courses offer internship and/or practicum experiences for students. Qualified students earn course credit while working on the job in their chosen career field. For more information about this opportunity, contact Guidance and Counseling Services.

JOBS

- Students who work after school have the responsibility to take care of their school obligations, including after school detention, before being excused from school each day,

- Students seeking jobs or participating in job training must do so on their own time.
- Students will not be excused from school to look for jobs. Interviews scheduled at a specific time can be met by having a parent make arrangements in advance with the administration.

ACADEMIC INTEGRITY

Academic integrity is defined as the conscious intent on the part of students and staff to honestly and responsibly use original, unique yet informed thoughts, ideas, opinions, and products toward the achievement of personal or professional academic goals. A violation against the Academic Code of Ethics is an act which could deceive, cheat, or defraud so as to promote or enhance one's academic standing. Academic dishonesty also includes knowingly or actively assisting any person in the commission of a violation of the Code.

Violations could include, but are not limited to:

- Plagiarism—Failure to use original, unique yet informed ideas, thoughts, works, images, or products, with the intent to represent the work of others as one's own.
- Cheating—The willful intent to use sources improperly for personal gain.
- Forgery/Falsifying documents—Counterfeiting documents for personal unwarranted advantage in terms of grades, standardized testing, academic standing, recognition, post-secondary placement, eligibility, and privileges.

Student Handbook Excerpt, Continued



STUDENT IDENTIFICATION CARD

The school issues a picture ID card to each student for security, identification, library check-out, and activity purposes.

- The picture ID is required to be in the student's possession at all times during the regular school day and at all school sponsored activities.
- Students will be expected to produce it for an employee when requested.
- If lost, the student must purchase a new card for \$10.

CLASSROOM RESPONSIBILITY FOR STUDENTS

Students are responsible to be in regular attendance, to be in the right place at the right time, to be prepared (books, handbook planner, assignments, supplies, etc.), and to have positive intentions supported by genuine effort.

AFJROTC UNIFORM POLICY

Students should be self-motivated to wear their uniform properly. Wearing the uniform on designated, weekly uniform days is a course requirement. Each student must wear the uniform all day during the minimum designated number of assigned uniform days in order to successfully complete course requirements and receive a passing grade.

DISCIPLINE POLICIES

The law provides teachers with considerable authority over the control and education of the child, once the parent sends his child to the public schools.

- The authority of the teacher is given by law and is not delegated by the parent.
- Authority is granted to the teacher by the state as an essential part of teaching responsibility.
- The teacher stands in place of the parent when the child is under the teacher's supervision and care.

GRADUATION INFORMATION: COMMUNITY SERVICE REQUIREMENTS

The service-learning requirement is based on our goal to prepare young adults to become active and productive citizens. People learn by doing, and community service is one means of educating students to be good citizens. The service hours have proven to be beneficial in enhancing student's self-esteem while increasing growth in social awareness and social commitment.

- Community service is volunteer work for which no other credit or monetary compensation is received.
- Ten hours of community service is a requirement for graduation from high school. A student will not participate in graduation ceremonies or receive a diploma who has not performed the ten hours of community service.
- The required community service for graduation is to be completed by the end of the student's junior year.

Student Handbook Excerpt, Continued



GRADUATION REQUIREMENTS

Graduation requirements for the class of 2008 shall be a minimum of twenty-four units of credit completed during grade nine and above. Graduation requirements for Classes of 2009 and beyond shall be a minimum of twenty-six units of credit completed during grade nine and above. In addition to the program of study for graduation, a student shall pass proficiency exams concerning the Missouri and the United States Constitutions, complete ten hours of approved community service, and meet all District disciplinary and financial obligations to qualify for graduation from the District. Additional graduation requirements may be established to meet specific programs of study.

GUIDANCE AND COUNSELING SERVICES

Guidance and counseling is an integral part of the Academic/Career & Technical High School's total educational program. The Missouri Comprehensive Guidance Plan is followed as a model for implementing this program. The components of this Plan include:

- Guidance Curriculum (curriculum geared toward career planning exploration, knowledge of self and others, and educational vocational development).
- Individual Planning (activities that help students plan, monitor, and manage their own learning, personal, and career development)
- Responsive Services (activities to meet immediate student needs with counseling, consultation, referral, or information),

- Support Services (management activities that establish, maintain, and enhance the total guidance program).

TUTORING

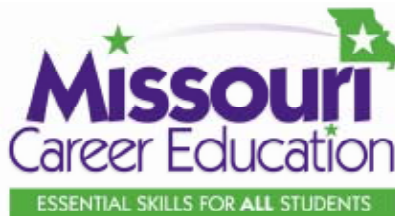
Occasionally, a student may benefit from additional one-on-one or small group instruction to supplement the classroom experience. Weekly tutoring sessions are offered to A/C&THS students throughout the school year. For more information, or a current schedule, visit the Student Support Services Web site: sss@acths.org.

PARENT-TEACHER CONFERENCES

Parent-Teacher Conferences are held once each semester. Dates for these formal events can be found on the Parent Information page of the A/C&THS Web site: parentinfo@acths.org. In addition, parents are encouraged to contact teachers directly with questions or concerns or for specific information. A Staff Directory is located in this Student Handbook and on the A/C&THS Web site at staff@acths.org.



Participant Evaluation



Participant Evaluation



Infusing Rigor, Relevance, and Relationships in Academic & Career Education

Date: _____ Your School District: _____

Your Job Title: Administrator Teacher Counselor Other _____

Institution Type: Elementary Middle School Comprehensive High School
 Career Center Community College 4-Year College/University

Please rate each of the following statements.	Agree	Neutral	Disagree
1. The content was valuable and appropriate.			
2. The materials were sufficient to support the learning tasks and understanding of the topic.			
3. The content of this module will increase my knowledge and skills in my educational role.			

Complete the following statements.

4. With what I've learned from this module, I can help impact student achievement in my educational setting by:

5. I now have a better understanding of:

6. The knowledge or skill(s) I gained from this presentation will enable me to:

7. I would be interested in (mark all that apply):

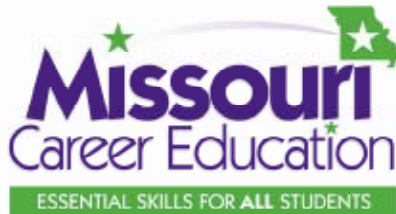
- Additional information about the content of this module.
 Follow-up training in respect to the content of this module.
 On-going technical implementation support in respect to the content of this module.

Please contact me at: _____

Comments:



Appendices



Appendix A: Glossary



- **Academic Standards** — Standards that address the understanding and competency students should attain
- **Active Learning Instructional Strategies** — Teacher facilitation of relevant learning tasks that challenge students to discover content in-depth and to apply facts, concepts, and procedures while analyzing, evaluating, and creating
- **Advanced Placement** — Rigorous courses designed to provide college-level coursework to secondary students; exemplary scores on the standardized Advanced Placement assessment may be awarded postsecondary credit
- **Articulation Agreements** — A written agreement between educational institutions that specifies the process by which a student may receive course credit or advanced standing for knowledge, skills, and abilities previously mastered at the sending institution as a result of aligned curriculum
- **Articulation Model** — An example of a standardized agreement between educational institutions where the receiving institution grants a student credit or advanced standing for knowledge, skills, and abilities previously mastered at the sending institution as a result of aligned curriculum
- **Capstone Experience** — A learning task in which students must integrate special studies with a major area of emphasis and extend, critique, and apply knowledge gained in the major
- **Career Clusters** — An organizing framework that groups occupations and careers based on common knowledge and skills
- **Career Development** — Self-development over the life span through the integration of life roles, settings, and events
- **Career Path** — A broad category of curricula and educational activities targeted at a student's academic and career goals
- **Career Pathway** — Listing of occupations that share advanced technical skills and/or common roles within a career cluster
- **Career-based Learning** — Structured learning experiences that integrate grade-appropriate, career-based activities with classroom instruction.
- **Character Education** — Educational programming that targets the development of positive human qualities in an individual that are good for both the individual and for society

Glossary, Continued



- **Dual Credit** — College-level courses taught on the high school campus by qualified instructors
- **Dual Enrollment** — College courses taken by high school students who must travel to the college campus for instruction
- **Emotional Intelligence** — The ability to perceive and express emotion, assimilate emotion in thought, understand and reason with emotion, and regulate emotion in the self and others (Mayer & Salovey, 1997)
- **High Schools That Work (HSTW)** — The first SREB school-improvement initiative, where Goals and Key Practices emphasize the importance of relationships for student success
- **Integration** — The process of combining rigorous academic content and real world applications in a seamless and meaningful way
- **International Baccalaureate** — A program offering rigorous curriculum that emphasizes development of inquiry, knowledge, and intercultural understanding and respect and allowing secondary IB students completing a two-year program of studies to qualify for a prestigious IB diploma recognized by universities worldwide
- **Internship** — Any formal program (with or without course credit) that provides practical experience for beginners in an occupation or profession; courses that often provide specific training plans and assignments to enhance the practical experience and are supervised by a trained, certificated instructor and an employer
- **Job Shadowing** — The act of observing a person engaged in everyday on-the-job activities to learn about the person’s career choice and if it is appealing to the observer; typically a short-term experience, which sometimes involves the observer in some job tasks
- **Knowledge and Skills** — What people need to know and be able to do in specific careers, which integrates grade-appropriate, career-based activities with classroom instruction to apply and advance student knowledge in academic areas while learning occupational skills
- **Making Middle Grades Work** — A middle school initiative of the Southern Regional Education Board (SREB)
- **Measurement Criteria** — Items under each Performance Element that clarify what is to be measured and level of performance expected
- **Mentoring** — A formal process through which an experienced person (mentor) provides support and guidance to a less experienced colleague (mentee/protégé)

Glossary, Continued



- **Model Schools Initiative** — A program that furthers the aim of increasing rigor, relevance, and relationships in educational institutions with member schools demonstrating student success
- **Performance Elements** — Measurable instructional components that represent a single outcome behavior, support knowledge and skills statements, reflect high expectations/rigor, and use all levels of Bloom’s Taxonomy, as appropriate
- **Performance Standards** — Standards that identify what a student needs to do to demonstrate the knowledge and skills required to meet achievement indicators
- **Personal Plan of Study** — A student’s scope and sequence of coursework and co-curricular experiences based on chosen educational and career goals; relies on the school’s implementation of a Program of Study
- **Problem-based Learning (PBL)** — Focused, experiential learning (minds-on, hands-on) organized around the investigation and resolution of messy, real-world problems; curriculum that provides authentic experiences fostering active learning, supporting knowledge construction, naturally integrating school learning and real life, addressing state and national standards, and integrating disciplines
- **Professional Learning Communities** — Faculty organized into learning teams focused on student achievement
- **Program of Study** — Coherent, rigorous, and relevant content aligned with challenging academic standards in a coordinated, non-duplicative progression of courses and co-curricular experiences that align secondary education with postsecondary education
- **Project Lead the Way** — A program that promotes engineering careers through the relationship of partner institutions: middle schools, high schools, higher education, and the private sector
- **Project-based Learning** -- A process in which students investigate rich and challenging issues and topics, often in the context of real-world problems, integrating subjects such as science, mathematics, history, and the arts (Edutopia, 2002, p.3)
- **Relationships** — Four critical learning connections formed in schools: (1) Among students, parents, peers; (2) Among staff members; (3) Among teachers with others in their profession; and (4) Between the school and the community (parents, businesses, community leaders)
- **Relevance** — Learning experiences in which students apply core knowledge, concepts, or skills to solve real-world problems

Glossary, Continued



- **Remediation** — The correction or strengthening of skills, especially academic skills required for post-secondary success, through programs designed to target specific deficits by offering instruction to increase skill attainment and boost student achievement
- **Rigor** — Learning experiences that foster cognitive skills in which students demonstrate a thorough, in-depth mastery of challenging tasks
- **Service Learning** — An educational experience in which students participate in community-based, volunteer projects that strengthen the understanding of course content and reinforce the development of citizenship and civic responsibility
- **Small Learning Communities** — A structure that fosters relationships among students and staff and encourages personal interactions not possible in larger settings
- **Summer Bridge Programs** — Programs designed to ease the ninth grade transition into high school; experiences may include academic remediation/enhancement and high school orientation activities
- **Tech Prep** — A non-duplicative, sequential course of study that combines a minimum of two years of secondary education with a minimum of two years of postsecondary education or an apprenticeship program of not less than two years following secondary education; also integrates academic and career and technical education instruction, and utilizes work-based and worksite learning experiences, where appropriate and available
- **Technology Centers That Work (TCTW)** — An enhancement of the HSTW framework that focuses on literacy and student readiness for work and postsecondary education with each TCTW site developing a close relationship with a partner HSTW site
- **Transitions** — The successful advancement of students from middle school to secondary school, secondary to postsecondary education, and from postsecondary education to the world of work
- **Work-based Learning** — An instructional approach that offers a range of experiences, such as job shadowing, internships, and other similar arrangements between schools, students, and employers to provide students with connections between classroom learning and the workplace
- **Work-site Learning** — An educational approach that uses the actual worksite to provide students with a context for connecting classroom-taught knowledge and skills to real-life work experiences

Appendix B: Resource Links



- **Achieve (www.achieve.org)** was created by the nation's governors and business leaders, to help states raise academic standards and achievement so that all students graduate ready for college, careers, and citizenship.
- **College Access (www.going2college.org)** is a Web site where students may find state-specific information about planning for college and careers; supported by the Missouri Department of Higher Education.
- **Career Clusters (www.careerclusters.org)** is the Web site for the States' Career Clusters Initiative (SCCI), features research, products, and services.
- **Career and College Transition Initiative (www.league.org/league/projects/ctti/purpose.html)** is a key resource is the League for Innovation in the Community College (<http://www.league.org>), an international organization serving community colleges. Among the League's projects is the Career and College Transition Initiative (CCTI), which is a federally funded project in cooperation with several nationally recognized partner organizations.
- **Career One Stop (www.careeronestop.org)** is a site sponsored by the US Department of Labor that offers career resources and workforce information for students and job seekers.
- **College Access (www.going2college.org)** is a Web site where students may find state-specific information about planning for college and careers; supported by the Missouri Department of Higher Education.
- **Department of Elementary and Secondary Education (www.DESE.mo.gov)** offers downloadable booklets and other information about career clusters and career pathways.
- **Edutopia (www.edutopia.org)**, sponsored by the George Lucas Foundation, provides inspiring articles about innovative teaching in K-12 schools.
- **High Schools That Work (www.sreb.org/Programs/hstw/hstwindex.asp)** is the largest and oldest of the Southern Regional Education Board's (SREB) school improvement initiatives for high school and middle grades leaders and teacher. The site allows users to register for conferences and workshops, obtain copies of publications, read about exemplary school and classroom practices, find a schedule for technical assistance visits to member schools, and learn how SREB collects data on students' academic achievement.
- **Missouri Center for Career Education (www.MCCE.org)** offers curriculum, professional training, and other resources for schools, teachers, and staff.
- **Missouri Connections (www.missouriconnections.org)** is a Web-based education and career planning system available at no charge to all public middle and secondary schools. Using the Career Clusters Framework, it allows students to explore career options and develop personal plans of study as well as electronic portfolios.

Resource Links, Continued



- **Missouri Economic Research and Information Center (www.missourieconomy.org)** provides a student edition of the Missouri Career Guide, along with information and projections about in-demand occupations.
- **Model Schools Initiative, a program of the International Center for Leadership in Education (www.leadered.com),** offers a wealth of information related to rigor and relevance in learning.
- **Project Lead the Way (www.pltw.org)** is a not-for-profit organization that promotes pre-engineering courses for middle and high school students. PLTW forms partnerships with public schools, higher education institutions and the private sector to increase the quantity and quality of engineers and engineering technologists graduating from our educational system. The site offers resources for school certification, assessment, and program evaluation.
- **The Futures Channel (www.thefutureschannel.com)** connects learning with the real world through stories and short movies about people who are innovating in various fields of work.