2023 ALABAMA COURSE OF STUDY

Career and Technical Education

Arts, A-V Technology, and Communications
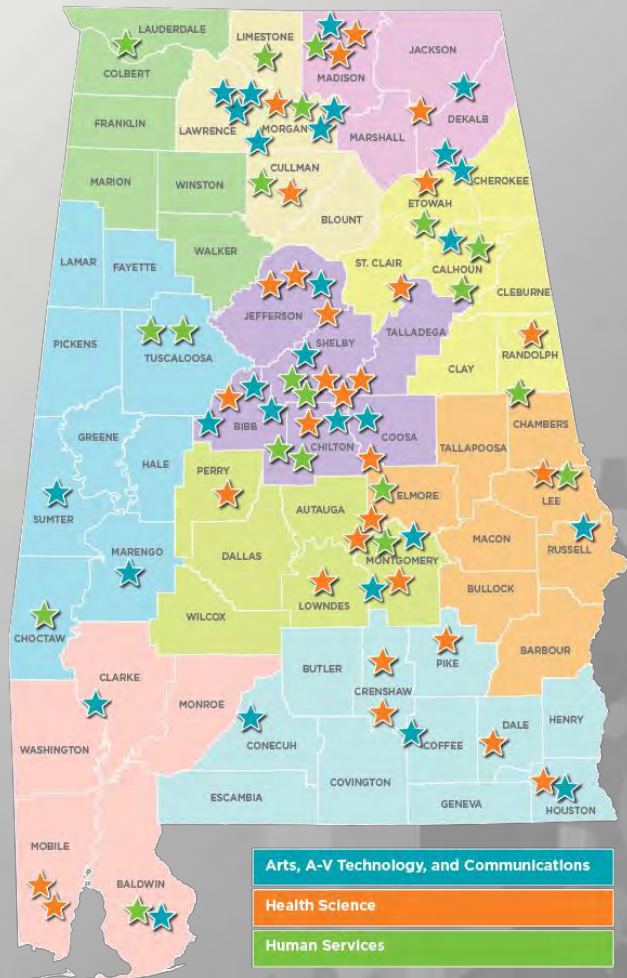
Health Science

Human Services

THE COMMITTEE CAME FROM ALL ACROSS THE STATE . . .

ENTERTAINMENT & MEDIA • PRINTING TECHNOLOGIES • ARTS: AUDIO-VISUAL TECHNOLOGY & COMMUNICATIONS • VISUAL ARTS • PRINTING TECHNOLOGIES
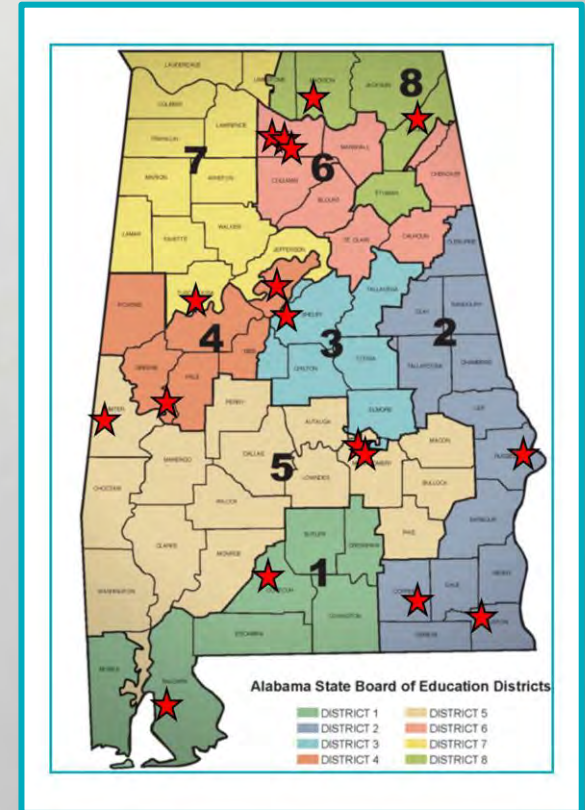
COMMITTEE MEMBERS FROM AROUND THE STATE

12 high school educators
4 collegiate educators
2 governor's appointees

Total years of experience = 300+

Alabama State Board of Education Districts

DISTRICT 1   DISTRICT 5
DISTRICT 2   DISTRICT 6
DISTRICT 3   DISTRICT 7
DISTRICT 4   DISTRICT 8

Committee Members

Arts, A-V Technology, and Communications
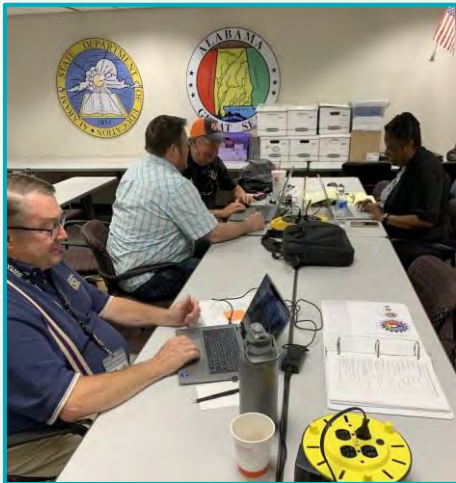
ALABAMA SkillsUSA

Alabama SkillsUSA offers 5 contests in the area of Arts, A-V Technology, and Communications:

- **Advertising Design**
- **Broadcast News Production**
- **Digital Cinema Production**
- **Photography**
- **Television Video Production**

★ **Audio-Radio Production**

COURSES

In Arts, Audio-Visual Technology, and Communications students can choose one of 3 programs and 24 courses

Entertainment and Media

Media Production Foundations

Audio Production I, II

Broadcasting Production I, II

Drone Flight Operations, Drone Licensure and Fundamentals

Film Production I, II

*Technical Theatre I, II

Visual Arts

Advertising and Graphic Design I, II, III

Animation I, II, III

Photography I, II, III

Printing Technologies

Digital File Preparation and Output for Printing (Foundation)

Digital Production Printing

Offset Press Operations

*Screen Printing

PROGRESSION OF RIGOR
ENTERTAINMENT AND MEDIA

ARTS, A-V TECHNOLOGY, AND COMMUNICATIONS

Media Production Foundations

Standard #13:

Demonstrate and explain the use of mixing techniques to improve audio quality.

Examples: *volume, gain, fading*

Audio Production I

Standard #5:

Use mixing, mastering, and acoustical treatment procedures to enhance audio recordings of studio performances.

Examples: *frequency detection, compression, reverb, equalization, mic placement; sound absorption, isolation, panels, diffusers, foam*

Audio Production II

Standard #4:

Apply principles of audio acoustics to set up, mix, and master in a live sound environment.

Examples: *front of house monitoring, recording desk operations, equalization of space, ringing out microphones*

Progression of Rigor
Visual Arts

Animation I

Standard #6:

Develop animated human characters, basing their characteristics on research of personality types.

Animation II

Standard #2:

Conceptualize and create original characters, considering elements such as shape, proportion, anatomy, and expressive features.

Animation III

Standard #8:

Construct a script that includes storytelling, story arcs, plot twists and dialogue between characters with distinct personalities, all connected to the game level design.

Career Readiness Indicators

Adobe Certified Professional:
Illustrator
InDesign
Photoshop
Premier Pro
Dreamweaver
After Effects

Certified Internet Webmaster:
E-Commerce
Enterprise Developer
Site Designer

Autodesk Certified User:
AutoCAD
Fusion 360
Inventor
Revit

SolidWorks Associate

SolidEdge Certified Associate

PrintEd:
Advertising Design
Digital File Preparation & Digital File Output
Graphics Communication
Offset Press Operations / Binding Finishing
Screen Printing

Microsoft Certified Professional:
Internet (MCP+I)
Site Building (MDP + Site Building)

Apple Pro-Level One:
Aperture
Final Cut
Motion

Certified Professional Photographer (CPP)

FAA Part 107

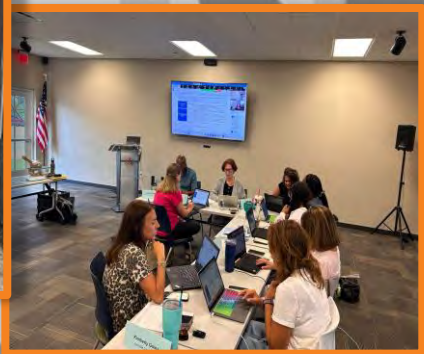Smith Micro Software: Anime Studio Pro/Moho

Questions?

HEALTH SCIENCE

COS Committee

Cluster Overview

Therapeutic Services, Diagnostic Services, Health Informatics, Support Services, and Biotechnology Research and Development

New middle school courses introduce students to careers in healthcare. Courses may be offered to students in Grades 6 through 8.

Cluster Overview

→ **The needs of the community influence the program curriculum.**

→ **Needs are reviewed annually by the CTE Director, program teachers, and the Program Advisory Committee.**

→ **Information is obtained through surveys, discussions, and labor market data.**

Employment and Salary Data

Total Statewide Employment – 204,327

- 91 Total Occupations
- 30 High Wage/In-Demand Occupations (33%)
  - ★ Registered Nurses
  - ★ Medical and Health Service Managers
  - ★ Nurse Practitioners
- Average Entry Salary: $46,434
- Average Salary: $61,834
- Average Experienced Salary: $72,715
- Top 10 Occupation Mean Earnings: $70,510
- Annual Openings: 15,040

Data obtained from Alabama Department of Labor - Labor Market Information Division

Health Science

BUILDING THE PIPELINE

HEALTH SCIENCE

Addressing current and projected workforce gaps through education and leadership training.

Creating providers who remain in their communities to meet growing healthcare needs.

Preparing students to meet the challenges and opportunities all healthcare workers face as they enter the profession.

Growing future workers who meet professional qualifications.

2008 TO TODAY

30 Courses
- 28 High School

- 2 Middle School

21 Courses
- Reduced options to align with demands
18 High School
3 Middle School
- Expanded and focused to meet projected industry needs

Previous Standards
- Technology standards are broad, not specific or addressed
- Minimal reading and math literacy
- Broad standards that lack rigor

New Standards
- Addressed changes in technology to include specific, measurable outcomes
- Increased math and reading literacy
- Aligned with national healthcare standards
- Increased rigor

PROGRESSION OF RIGOR

HEALTH SCIENCE

Foundations of Health Science

Prerequisite for all health science courses

→

Concentrator Courses Examples

Diagnostic Services

Therapeutic Services

Nurse Aide Training

Patient Care Technician

Sports Medicine

→

Capstone Course Examples

CTE Lab in Health Science

Health Science Internship

Career Pathway Project in Health Science

PROGRESSION OF RIGOR

HEALTH SCIENCE

Foundations of Health Science

12. Identify and describe a variety of common infectious organisms, including blood-borne pathogens.

Biotechnology I

5. Perform polymerase chain reaction (PCR) to amplify a DNA sample, diagnose a disease, or isolate a pathogen.

Biotechnology II

4b. Demonstrate and explain methods of molecule and protein isolation, purification, and quantification using polyacrylamide gel.

Course Sequencing Examples

Health Science

Concentration	Foundational Course	Concentrator Course	Concentrator Course	Capstone Course	Career Readiness Indicator
Patient Care	Foundations of Health Science	Therapeutic Services	Patient Care Technician Or Nurse Aide Training	Health Science Internship	Certified Patient Care Technician Certified Nursing Assistant Certified Clinical Medical Assistant
Sports Medicine	Foundations of Health Science	Sports Medicine I	Sports Medicine II	Career Pathway Project in Health Science	BLS Instructor
Biomedical Sciences	Foundations of Health Science	Biotechnology I	Biotechnology II	CTE Lab in Health Science	Biotechnician Assistant Credentialing Exam (BACE)
Pharmacy	Foundations of Health Science	Medical Math	Pharmacy Technician	CTE Lab in Health Science	Certified Pharmacy Technician

Career Readiness Indicators

Health Science

- Basic Life Support (BLS) Instructor
- Biotechnician Assistant Credentialing Exam (BACE)
- Certified Billing and Coding Specialist (CBCS)
- Certified Clinical Medical Assistant (CCMA)
- Certified EKG Technician (CET)
- Certified Electronic Health Records Specialist (CEHRS)
- Certified Medical Administrative Assistant (CMAA)

- Certified Nursing Assistant (CNA)
- Certified Pharmacy Technician (CPhT)
- Certified Patient Care Technician (CPCT)
- Elanco Veterinary Medical Applications Certification
- Emergency Medical Dispatcher (EMD)
- Lifeguard Certification (American Lifeguard Association or American Red Cross)
- National Emergency Medical Responder (EMR)
- National Emergency Medical Technician (EMT)
- Public Safety Telecommunicator

Cluster Overview

The Human Services cluster represents a wide variety of careers that promote growth and development across the lifespan, innovative human environments, and family and individual wellness. Professions in this cluster include designers, social services professionals, registered dieticians, and personal financial advisors.

Course of Study Committee

Human Services

Course of Study Committee

Human Services
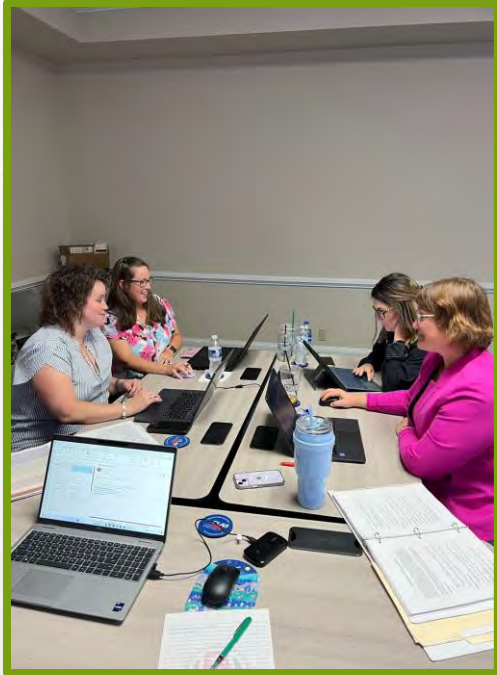
Employment and Salary Data

Human Services

Total Statewide Employment – 174,590

- ★ **75 Total Occupations**
- ★ **In Demand Occupations**
  - ○ **Social and Human Services Assistants/Personal Care Assistants**
  - ○ **Exercise/Fitness Trainers**
  - ○ **Child, Family, and School Social Workers**
- ★ **High Wage Occupations**
  - ○ **Financial Managers/Personal Financial Managers**
  - ○ **Social and Community Service Workers**
  - ○ **Directors of Religious Education**
- ★ **Average Entry Salary: $29,300**
- ★ **Average Salary: $44,900**
- ★ **Average Experienced Salary: $52,600**
- ★ **Top 10 Occupations Mean Earnings: $124,000**
- ★ **Annual Openings: 98,700**

Data obtained from Alabama Department of Labor - Labor Market Information Division

Employment and Salary Data

HUMAN SERVICES

In Demand Careers by Salary

$20K Salary

Childcare Provider

Laundry/Dry Cleaning Professionals

Personal Care Aides

$30K Salary

Credit Counselor

Tailors

Customer Service Representatives

Retail Salesperson

$40K Salary

Fashion and Media Marketing

Personal Financial Advisor

Exercise Trainers

Child, Family, and School Social Workers

$50K Salary

Religious Educators

Home staging and Real Estate Marketing

Child Life Specialist

Religious Activity Directors

Clergy

$60 70K Salary

Interior Designers

Family Financial Planners

Social/ Community Service Managers

Retail Merchandisers

Clinical Psychologist

Student Success: FCCLA

★ **FCCLA is the only CTSO that puts family first.**

★ **Over 11,000 middle and high school members from nearly 300 chapters join Alabama's FCCLA's Ultimate Leadership Experience which equips members with real-world skills through Family and Consumer Sciences (FCS) education by preparing members for careers in three clusters: Education and Training, Hospitality and Tourism, and Human Services.**

★ **FCCLA members strengthen skills, forge friendships, and make a positive difference in today's world through participating in competitive events, serving in leadership positions, networking with leaders, and developing college- and career-ready skills.**

Student Success: FCCLA Over 11,000 members strong

Human Services

FCCLA National Leadership Conference in Denver, Colorado

First place: 9
Second place: 5
Third place: 1

Mary Katherine Gunn
Elberta High School
National FCCLA President
2022-2023

State Officers and members advocated for CTE, FCS, and FCCLA in Washington, D.C.

PROGRAM STRUCTURE

HUMAN SERVICES

Family and Consumer Sciences
(Required Foundation Course)

Nutrition and Wellness

- Cuisine and Media Production
- Cultural Foods
- Event Planning and Management
- Family Wellness
- Food and Wellness
- Food Safety and Microbiology
- Food Science
- Nutrition and Food
- Sports Nutrition

Family Studies and Community Services

- Child Development
- Child Services
- Family and Community Services
- Family Financial Planning
- Family Wellness
- Human Lifespan Development
- Nutrition and Food

Clothing, Textiles, and Interior Design

- Architecture and Interior Design I
- Architecture and Interior Design II
- Creative Design and Production
- Event Planning and Management
- Fashion Fundamentals
- Fashion Merchandising
- Home Renovation and Sales
- Small Business in FCS

Consumer Services

- Consumer Affairs
- Consumer Economics
- Creative Design and Production
- Family Financial Planning
- Home Renovation and Sales
- Small Business in FCS

CAPSTONE: CTE Lab in Human Services ✳ Career Pathway Project in Human Services

HUMAN SERVICES

Career Readiness Indicators

Nutrition and Wellness

Certified Guest Service Professional

Food and Beverage Skills for Success

ServSafe Food Handler

ServSafe Manager

Family Studies and Community Services

Certified Guest Service Professional

ServSafe Food Handler

ServSafe Manager

Clothing, Textiles, and Interior Design

ASK Institute Concepts of Entrepreneurship

ASK Institute Concepts of Business Management

Certified Guest Service Professional

National Retail Federation National Professional Certification in Customer Service and Sales

Consumer Services

ASK Institute Concepts of Entrepreneurship

ASK Institute Concepts of Business Management

Certified Guest Service Professional

National Retail Federation National Professional Certification in Customer Service and Sales

ServSafe Food Handler

ServSafe Manager

Progression of Rigor
Clothing, textiles, and Interior design

Human Services

Family and Consumer Sciences

Standard #27:

Describe the cycle of design trends in housing and apparel.

Fashion Fundamentals

Standard #5:

Examine the designer's role in creating styles and trends.

Fashion Merchandising

Standard #13:

Analyze the effects of marketing on current and emerging fashion trends.

Human Services

Progression of Rigor
Consumer Services

Family and Consumer Sciences

Standard #2:

Develop a financial plan for an individual based on resources and financial goals.

Consumer Economics

Standard #19:

Simulate maintaining a budget for an individual or family based on a given scenario.

Family Financial Planning

Standard #14:

Create and present a portfolio that demonstrates financial planning skills, including a personal financial plan, insurance options, retirement planning, and investment planning.

Questions?