

**SUBJECT
AND
PERSONNEL
CODES**

**LEA Personnel System
2008-2009**

**State of Alabama
Department of Education
Joseph B. Morton, State Superintendent of Education**

**SUBJECT AND PERSONNEL CODES
2008-2009**

STATE OF ALABAMA
DEPARTMENT OF EDUCATION

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No person shall be denied employment, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity on the basis of disability, sex, race, religion, national origin, color, or age. Ref: Sec. 1983, Civil Rights Act, 42 U.S.C.; Title VI and VII, Civil Rights Act of 1964; Rehabilitation Act of 1973, Sec. 504; Age Discrimination in Employment Act; Equal Pay Act of 1963; Title IX of the Education Amendment of 1972: Title IX Coordinator, P.O. Box 302101, Montgomery, Alabama 36130-2101 or call (334) 242-8444.

USE OF SUBJECT AND PERSONNEL CODES

USE OF SUBJECT AND PERSONNEL CODES

The codes and descriptions contained in this bulletin are to be used when completing the LEA Personnel Report for the 2008-2009 school year and to ascertain "in-field" status of school system employees. Each individual in the local school system who is to be included in the LEA Personnel Report must have a code from this bulletin accurately describing his/her position or subject(s) taught.

Throughout this bulletin, grade ranges are indicated as part of the "in-field" requirement. Those grade ranges are defined as:

All Grades	Preschool through twelve
Kindergarten	Five year olds (must be five by September 1)
Primary Grades	Preschool through three
Elementary	Grades one through six
Middle School	Grades four through eight
Junior High School	Grades seven through nine
High School	Grades ten through twelve

In those instances where an individual's responsibilities overlap grade ranges, "in-field" criteria for either grade range will apply. An individual who meets criteria of either range will be determined to be "in-field." For example, a fifth grade teacher will be evaluated by the criteria for the elementary grades and by criteria for middle school. Meeting either criteria may be used to determine that the teacher is "in-field." The teacher does not have to satisfy both criteria to be determined "in-field."

If none of the entries adequately describes the individual's responsibility(ies), or if there are questions regarding grade ranges, assistance may be obtained from the Teacher Education and Certification Office of the State Department of Education by calling (334) 353-8567.

Joseph B. Morton
State Superintendent of Education

May 2008

The example below illustrates how to read the entries in this bulletin.

ELEMENTARY (P-6)

<i>subject code</i>	<i>subject name</i>	<i>description</i>
555030	Language Arts (P-6)	Reading, writing, speaking, listening, viewing, presenting, grammar and usage, capitalization, punctuation, spelling, handwriting and vocabulary

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
Elementary Certificate (Grades K-6), or
Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or
Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in reading (Grades P-12), or
Reading Specialist Certificate, or
Interim Certificate (Grades P-12) endorsed in reading

ELEMENTARY GRADES

Elementary Certificate, or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or English, or
Secondary Certificate (Grades 6-12) endorsed in English language arts, or English, or
Special Alternative Certificate (Grades 6-12) endorsed in English language arts, or
Interim Certificate (Grades 6-12) endorsed in English language arts, or English

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in language arts, or English, or English language arts, or generalist, or
Elementary Certificate (Grades 1-9), or
Special Alternative Certificate (Grades 4-8) endorsed in English language arts, or
Interim Certificate (Grades 4-8) endorsed in English language arts, or generalist, or English, or language arts

The above example says that in order to teach language arts (code 555030) in the primary grades (preschool through three) the teacher must have one of the following:

- (1) Early Childhood Certificate, or
 - (2) Elementary-Secondary Certificate endorsed in reading (Grades P-12), or
 - (3) Reading Specialist Certificate, or
 - (4) Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
 - (5) Interim Certificate (Grades P-3) endorsed in early childhood education (0H5), or
 - (6) Interim Certificate (Grades P-12) endorsed in reading
-

***PROFESSIONAL
EMPLOYEE PERSONNEL
CODES***

PROFESSIONAL EMPLOYEE PERSONNEL CODES

- 010 Teacher**
An individual responsible for the instruction of students
- 011 Resource Teacher**
An individual who works with small groups of children in special situations including both enrichment and remediation
- 012 Teacher Assigned to an Alternative Education Program**
An individual who works with students in an alternative education program
- 014 Teacher-Gifted**
An individual who provides instruction in the gifted children's program
- 015 Teacher-Collaborative Special Education**
A special education teacher who consults with/provides support to the general education teacher in a class/course at the elementary or secondary level leading toward the award of an Alabama High School Diploma or an Alabama Occupational Diploma
- 016 Teacher-Collaborative Other**
Any teacher other than a special education teacher who consults with/provides support to the general education teacher in a class/course at the elementary or secondary level leading toward the award of an Alabama High School Diploma or an Alabama Occupational Diploma
- 018 Teacher-Retired**
An individual who is currently a retired member of the Teachers' Retirement System of Alabama and has been rehired under contract by a school system to provide student instruction
- 019 Teacher Vacancy**
A vacant position, which has an active schedule, that is expected to be filled by an individual who will provide the scheduled instruction to students.

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the subject(s) and grade level(s) to which the individual is assigned. These personnel codes also require a six-digit subject code.

-
- 083 Consulting Teacher**
An individual who provides assistance to regular teachers through conferences, demonstrations, research, etc.

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Any Professional Educator Certificate

084 Reading Coach

An individual who serves as an Alabama Reading Initiative/Alabama Reading First Initiative (ARI/ARFI) Building Reading Coach or Regional Reading Coach or Regional Principal Coach

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the specific Reading Coach position to which the individual is assigned. See subject codes 990400, 990500 and 990600 in the Special Assignments section of this document.

077 Mathematics Coach

An individual who serves as a Mathematics Coach in order to provide assistance to teachers in the area of mathematics instruction (will exist in such programs as AMSTI)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the grade level(s) to which the individual is assigned. See the Mathematics courses listing in the Elementary Courses section of this document for individuals serving as a Mathematics Coach in the elementary grades. See the Mathematics courses listing in the Secondary Courses section of this document for individuals serving as a Mathematics Coach in the secondary grades.

078 Science Coach

An individual who serves as a Science Coach in order to provide assistance to teachers in the area of science instruction (will exist in such programs as AMSTI)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the grade level(s) to which the individual is assigned. See the Science courses listing in the Elementary Courses section of this document for individuals serving as a Science Coach in the elementary grades. See the Science courses listings in the Secondary Courses section of this document for individuals serving as a Science Coach in the secondary grades.

052 Supervisor of Instruction

An individual who works with administrators and teachers to ensure the quality of instruction being presented

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the subject(s) being supervised or the grade range of the teachers with whom he/she works. This personnel code also requires a six-digit subject code from the Areas of Supervision section of this document.

SUPERINTENDENT/ASSISTANT SUPERINTENDENT

061 Superintendent

The chief administrator for the school system

062 Assistant Superintendent

The assistant to the chief administrator for the school system

063 Administrative Assistant

An assistant to the superintendent responsible for some portion of the system's administration

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

SUPERVISOR

051 Supervisor of Attendance

An individual responsible for supervising the school attendance program and performing related duties

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Supervisor Certificate endorsed as Supervisor of Instruction (035), or Supervisor of Attendance, or Superintendent-Principal Certificate, or Educational Administrator Certificate, or Instructional Leader Certificate, or Principal Certificate, or Superintendent Certificate, or Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

053 Director of Child Nutrition

The individual responsible for supervising the school lunch program

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Child Nutrition Program Director Certificate

054 Supervisor of Transportation

The individual responsible for supervising the transportation of students to and from school

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

A valid Alabama School Bus Driver's certification and a valid Commercial Driver's License with proper endorsement issued by the Department of Public Safety, **AND**

Superintendent-Principal Certificate, or Educational Administrator Certificate, or Instructional Leader Certificate, or Principal Certificate, or Superintendent Certificate, or Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

059 Supervisor-Other

An individual responsible for supervision in a program/operational area not specified in personnel codes 051, 052, 053, and 054

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Supervisor Certificate endorsed as Supervisor of Instruction, or
Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

PRINCIPAL/ASSISTANT PRINCIPAL

021 Principal (P-12)

The chief administrator of a school where the grades taught span the range from preschool to twelfth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Practicing Instructional Leader Certificate, or
Principal Certificate (Grades P-12), or
Principal Certificate (Grades P-6) **AND** Principal Certificate (Grades 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

031 Assistant Principal (P-12)

The assistant chief administrator of a school where the grades taught span the range from preschool to twelfth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12), or
Principal Certificate (Grades P-6) **AND** Principal Certificate (Grades 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

022 Principal (P-6)

The chief administrator of a school where the grades taught span the range from preschool to sixth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Practicing Instructional Leader Certificate, or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

032 Assistant Principal (P-6)

The assistant chief administrator of a school where the grades taught span the range from preschool to sixth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

023 Principal (4-8)

The chief administrator of a school where the grades taught span the range from fourth to eighth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

MIDDLE SCHOOL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Practicing Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

033 Assistant Principal (4-8)

The assistant chief administrator of a school where the grades taught span the range from fourth to eighth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

MIDDLE SCHOOL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

024 Principal (7-12)

The chief administrator of a school here the grades taught span the range from seventh to twelfth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Practicing Instructional Leader Certificate, or
Principal Certificate (Grades P-12 or 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

034 Assistant Principal (7-12)

The assistant chief administrator of a school where the grades taught span the range from seventh to twelfth

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12 or 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

CAREER/TECHNICAL ADMINISTRATOR

056 Career/Technical Administrator (system-wide)

057 Assistant Career/Technical Administrator (system-wide)

The chief/assistant career/technical administrator for a school system

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Educational Administrator Certificate, or
Instructional Leader Certificate, or
Administrator of Career/Technical Education Certificate, or
Any Professional Certificate endorsed in administrator of career/technical
education, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

- 025 Career/Technical Administrator (school level)**
035 Assistant Career/Technical Administrator (school level)
The chief/assistant administrator of an area career/technical school

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Educational Administrator Certificate, or
Instructional Leader Certificate, or
Practicing Instructional Leader Certificate, or
Administrator of Career/Technical Education Certificate, or
Any Professional Certificate endorsed in administrator of career/technical education, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

COUNSELOR

- 041 Counselor (P-12)**
042 Counselor (P-6)
043 Counselor (4-8)
044 Counselor (7-12)
045 Counselor (10-12)
An individual who provides comprehensive support services to promote students' personal/social, educational and career development

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

School Counselor Certificate, or
Any Professional Certificate endorsed in school counselor, or
Preliminary Certificate endorsed in school counselor, or
Special Alternative Certificate endorsed in school counselor, or
Interim Certificate endorsed in school counselor

LIBRARIAN

- 071 Librarian (P-12)**
072 Librarian (P-6)
073 Librarian (4-8)
074 Librarian (7-12)
The individual responsible for the school library

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any Professional Certificate endorsed in library-media, or
School Library-Media Specialist Certificate, or
Preliminary Certificate endorsed in library-media, or
Special Alternative Certificate endorsed in library-media, or
Interim Certificate endorsed in library-media

OTHER PERSONNEL

081 Coordinator

An individual who oversees all aspects of an education program

082 Evaluator

An individual responsible for evaluating one or more of the following areas: student academic progress, employee performance, program and/or special project effectiveness

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

086 Psychometrist

An individual responsible for administering and interpreting intellectual assessments

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

School Psychometrist Certificate, or
School Psychologist Certificate, or
Interim Certificate endorsed in School Psychometrist or School Psychologist

087 Psychologist

An individual responsible for administering and interpreting intellectual, personality, and/or projection tests

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

School Psychologist Certificate, or
Interim Certificate endorsed in School Psychologist

088 Coordinator/Assistant Coordinator of Special Education

An individual who oversees the special education program for the system

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Special Education Certificate (047, 049, 47H, 49H, 47K, 49K), or
Collaborative Teacher Certificate (47D, 47E, 49D, 49E), or
Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or as Supervisor of
Special Education, or
School Psychometrist Certificate, or
Secondary Certificate (006, 036), or Elementary-Secondary Certificate (009,037),
or Elementary Certificate (008, 035) endorsed in speech correction, or
speech and language impaired, or speech therapy, or
School Counselor Certificate and a license from the Alabama Board of
Examiners in Counseling, or
School Psychologist Certificate and a license from the Alabama Board of
Examiners in Psychology, or
Interim Certificate (IA2, IA3, Grades P-12) endorsed in emotional conflict, or
gifted, or hearing impaired, or mentally retarded, or mild learning
disabilities, or multiple disabilities, or orthopedically and other health
impaired, or specific learning disabilities, or speech and language
impaired, or visually impaired, or school counselor, or school
psychometrist, or school psychologist, or as educational administrator, or
as instructional leader, or
Interim Certificate (IF2, IF3, Grades P-3, or IJ2, IJ3, Grades birth-kindergarten)
endorsed in early childhood special education, or
Interim Certificate (IB2, IB3, Grades K-6 or IC2, IC3, Grades 6-12) endorsed as
collaborative teacher, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

089 Contract Substitute

An individual, hired on a standard teacher contract, who serves in a
substitute teacher capacity

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS
Any Professional Educator or Interim Certificate

091 Speech Pathologist

An individual who provides speech pathology services to students

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the grade level(s) to which the individual is assigned. This personnel code also requires subject code 651301 Speech and Language Impaired from the Special Education Courses section of this document.

092 Speech Pathologist Assistant

An individual who may instruct only in the speech areas of articulation, voice, fluency, and language and must be supervised by either a Speech-Language Pathologist who holds a valid Class A or Class AA Professional Educator Certificate in speech-language pathology or a special education coordinator/supervisor who holds a valid Professional Educator Certificate in an area of special education.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Speech-Language Pathology Assistant Certificate

097 Technology Coordinator-Certified

A person who holds a valid certificate and serves as the LEA Technology Coordinator responsible for the technology management for the district

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Any valid certificate

098 Other Certified Vacancy

Any existing certificated position, other than a teaching position, that is currently vacant but is expected to be filled within the current school year

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the 3-digit personnel code that is actually vacant

099 Other Certified Retired

An individual who is currently a retired member of the Teachers' Retirement System of Alabama and has been rehired under contract by a school system to fill a certificated position other than a teaching position

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Based on the 3-digit personnel code that is actually vacant

AREAS OF SUPERVISION

AREAS OF SUPERVISION

750100 General Supervisor of Instruction (P-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12), or
Principal Certificate (Grades P-6) **AND** Principal Certificate (Grades 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750200 General Supervisor of Instruction (P-6)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES AND ELEMENTARY GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750300 General Supervisor of Instruction (7-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES AND HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Instructional Leader Certificate, or
Educational Administrator Certificate, or
Supervisor of Instruction Certificate (Grades 7-12), or
Principal Certificate (Grades 7-12 or P-12), or
Superintendent Certificate, or

Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

750350 General Supervisor of Instruction (4-8)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

MIDDLE SCHOOL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

750400 Supervisor of Early Childhood Education (P-3)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or Instructional Leader

750500 Supervisor of Elementary Education (1-6)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or
Educational Administrator Certificate, or

Instructional Leader Certificate, or
Supervisor of Instruction Certificate (Grades 1-6), or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750600 Supervisor of Physical Education (P-6)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or in Physical
Education, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750650 Supervisor of Physical Education (7-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or in Physical
Education, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12 or 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750700 Supervisor of Reading (P-6)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or in Reading, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-6 or P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750750 Supervisor of Reading (7-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or in Reading, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12 or 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750800 Supervisor of Career/Technical Education (7-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or as Supervisor of
Career/Technical Education, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12 or 7-12), or
Administrator of Career/Technical Education Certificate, or
Any Professional Certificate endorsed in administrator of career/technical
education, or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750850 Supervisor of Science (P-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or in Science, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

750900 Supervisor of History (7-12)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Superintendent-Principal Certificate, or
Supervisor Certificate endorsed as Supervisor of Instruction, or in History, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate (Grades P-12 or 7-12), or
Superintendent Certificate, or
Interim Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Preliminary Certificate endorsed as Educational Administrator, or Instructional
Leader, or
Special Alternative Certificate endorsed as Educational Administrator, or
Instructional Leader

ELEMENTARY COURSES

ELEMENTARY (P-6)

- 551010 Elementary, Self-Contained**
One teacher or teacher team instructing the same group of students in the basic elementary curriculum
- 551011 Elementary, Self-Contained with an aide**
559999 Elementary Departmentalized, Other (P-6)
Any specialized course not otherwise covered in this Elementary Courses section

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

- Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

- Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
Elementary Certificate (Grades K-6), or
Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Special Alternative Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Interim Certificate (Grades K-6) endorsed in early childhood education (00K)

PRIMARY GRADES

- Early Childhood Certificate, or
Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

ELEMENTARY GRADES

- Elementary Certificate, or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADES FOUR THROUGH SIX

- Middle School Certificate endorsed in generalist, or
Interim Certificate (Grades 4-8) endorsed in generalist

MIDDLE SCHOOL GRADES

- Elementary Certificate (Grades 1-9)

555029 American Sign Language (P-6)
Development of communicative skills (including vocabulary and grammar acquisition); culture study

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in American Sign Language (0N8),
or
Any Professional Educator Certificate AND at least a valid Provisional Certificate issued by the American Sign Language Teachers Association.

NOTE: Requirements for proper certification are likely to change over time but not before the 2009-2010 academic year.

555011 Arts, Visual (P-5)
Elements of art; principles of design; produce, respond to, and understand art; history; variety of media-traditional, digital, and multimedia

555012 Arts, Visual (Grade 6)
Introduction to elements and principals of design; introduction to two- and three-dimensional techniques and media; introduction to art history; aesthetics; criticism; solution of art problems to communicate ideas; storage of art supplies; safety

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in art/visual arts (001, Grades P-12),
or
Special Alternative Certificate (Grades P-12) endorsed in art/visual arts (001), or
Interim Certificate (Grades P-12) endorsed in art/visual arts (001)

PRIMARY GRADES

Early Childhood Certificate endorsed in art/visual arts (001)

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6) endorsed in art/visual arts (001)

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in art/visual arts (001), or
Secondary Certificate (Grades 6-12) endorsed in art/visual arts (001), or
Interim Certificate (Grades 6-12) endorsed in art/visual arts (001)

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in art/visual arts (001), or
Interim Certificate (Grades 4-8) endorsed in art/visual arts (001)

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary Certificate (Grades 1-9) endorsed in art/visual arts (001), or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in art/visual arts (001)

555028

Chinese (P-6)

Development of beginning listening, speaking, reading, and writing skills involving familiar topics with focus on oral language use; recognition of basic sound distinctions and intonation patterns; basic elements of Chinese-speaking cultures

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in Chinese (Grades P-12), or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in Chinese, or
Interim Certificate (Grades P-12) endorsed in Chinese

GRADE SIX

Secondary Certificate (Grades 6-12) endorsed in Chinese, or
Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in Chinese, or
Interim Certificate (Grades 6-12) endorsed in Chinese

555082

Computer Education (P-6)

Survey course: non-technical presentations, social implications of computers, computer familiarization

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Any certificate

555201

Dance (P-5)

Movement elements, skills, and concepts; improvisations; opportunities to explore, integrate, analyze, communicate; history; choreographic structure; locomotor patterns

(NOTE: For Grade 6 Dance, see Dance courses listed in the Secondary Courses section.)

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Elementary Certificate (Grades 1-6) endorsed in physical education

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary Certificate (Grades 1-9) endorsed in health and physical education (009), or physical education, or

Elementary-Secondary Certificate endorsed in health and physical education (009, Grades P-12), or physical education (Grades P-12), or dance (Grades P-12), or

Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in dance, or

Special Alternative Certificate (Grades P-12) endorsed in physical education, or dance, or

Interim Certificate (Grades P-12) endorsed in physical education, or dance

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in physical education

555026 English as a Second Language (P-6): Consultative/Co-Teaching Services or Resource Services

This code applies to ESL/ELL teachers consulting/co-teaching with general education teachers in classes/courses at the elementary level (Grades P-6). These teachers are responsible for (1) development of English-speaking communicative skills, including vocabulary and grammar acquisition, through listening, speaking, reading, and writing; and (2) culture study. These teachers are not responsible for teaching content and objectives in the respective Alabama state courses of study and do not award academic grades.

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Early Childhood Certificate, or
Elementary Certificate, or
Elementary-Secondary Certificate endorsed in English as a Second Language/English for Speakers of Other Languages, or French, or German, or Japanese, or Latin, or Russian, or Spanish, or
Secondary Certificate (Grades 7-12 or 6-12) endorsed in French, or German, or Japanese, or Latin, or Russian, or Spanish, or
Middle School Certificate endorsed in French, or German, or Japanese, or Latin, or Russian, or Spanish, or
Special Alternative Certificate (Grades P-12) endorsed in English as a Second Language/English for Speakers of Other Languages, or French, or German, or Latin, or Spanish, or
Interim Certificate (Grades P-12 or 4-8 or 6-12 or 7-12) endorsed in English as a Second Language/English for Speakers of Other Languages, or French, or German, or Japanese, or Latin, or Russian, or Spanish, or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth-kindergarten) endorsed in early childhood education (0BK), or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades birth-kindergarten) endorsed in early childhood education (0BK)

ELEMENTARY GRADES

Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or English, or French, or German, or Japanese, or Latin, or Russian, or Spanish, or
Secondary Certificate (Grades 6-12), endorsed in English language arts, or English, or
Special Alternative Certificate (Grades 6-12) endorsed in English language arts, or French, or German, or Latin, or Spanish, or
Interim Certificate (Grades 6-12) endorsed in English language arts, or English

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in English language arts, or language arts, or English, or generalist, or
 Interim Certificate (Grades 4-8) endorsed in English language arts, or language arts, or English, or generalist

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in French, or German, or Japanese, or Latin, or Russian, or Spanish

Family and Consumer Sciences Education

200602 Teen Challenges (nine week course)

200603 Teen Challenges (semester course)

200604 Teen Challenges (yearlong course)

A nine-week, semester, or yearlong exploratory course for Grade 6 pre-adolescent students. A school-based laboratory is required for this course.

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in family and consumer sciences education, or
 Special Alternative Certificate (Grades 6-12) endorsed in family and consumer sciences education, or
 Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in family and consumer sciences education, or
 Interim Certificate (Grades 6-12) endorsed in family and consumer sciences education

555021 French (P-6)

Development of beginning listening, speaking, reading, and writing skills involving familiar topics with focus on oral language use; recognition of basic sound distinctions and intonation patterns; basic elements of French-speaking cultures.

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in French (Grades P-12), or
 Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in French, or
 Special Alternative Certificate (Grades P-12) endorsed in French, or
 Interim Certificate (Grades P-12) endorsed in French

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6 or 1-9) endorsed in French

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in French, or
 Secondary Certificate (Grades 6-12) endorsed in French, or
 Special Alternative Certificate (Grades 6-12) endorsed in French, or
 Interim Certificate (Grades 6-12) endorsed in French

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in French, or
 Elementary Certificate (Grades 1-9) endorsed in French, or
 Interim Certificate (Grades 4-8) endorsed in French

555022

German (P-6)

Development of beginning listening, speaking, reading, and writing skills involving familiar topics with focus on oral language use; recognition of basic sound distinctions and intonation patterns; basic elements of German-speaking cultures.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in German (Grades P-12), or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in German, or
Special Alternative Certificate (Grades P-12) endorsed in German, or
Interim Certificate (Grades P-12) endorsed in German

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6 or 1-9) endorsed in German

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in German, or
Secondary Certificate (Grades 6-12) endorsed in German, or
Special Alternative Certificate (Grades 6-12) endorsed in German, or
Interim Certificate (Grades 6-12) endorsed in German

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in German, or
Elementary Certificate (Grades 1-9) endorsed in German, or
Interim Certificate (Grades 4-8) endorsed in German

555060

Health and Physical Education (P-6)

Health knowledge, attitudes, practices, and safety; motor skill development; health enhancing physical activity; interactive behavior

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary Certificate (Grades 1-9) endorsed in health and physical education (009), or
Elementary-Secondary Certificate endorsed in health and physical education (009, Grades P-12), or physical education (Grades P-12) **AND** health education (Grades P-12)

555061

Health Education (P-6)

Health-enhancing knowledge, behaviors, and attitudes, and safety practices

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in health education (Grades P-12) or health and physical education (009, Grades P-12), or
Interim Certificate (Grades P-12) endorsed in health education

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
 Interim Certificate (Grades birth – kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
 Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
 Elementary Certificate (Grades K-6), or
 Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
 Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or
 Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
 Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

ELEMENTARY GRADES

Elementary Certificate, or
 Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
 Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
 Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education, or

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in health education, or
 Secondary Certificate (Grades 6-12) endorsed in health education, or
 Special Alternative Certificate (Grades 6-12) endorsed in health education, or
 Interim Certificate (Grades 6-12) endorsed in health education

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in health education, or
 Elementary Certificate (Grades 1-9), or
 Interim Certificate (Grades 4-8) endorsed in health education

555027**Japanese (P-6)**

Development of beginning listening, speaking, reading, and writing skills involving familiar topics with focus on oral language use; recognition of basic sound distinctions and intonation patterns; basic elements of the Japanese-speaking culture.

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in Japanese (Grades P-12), or
 Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in Japanese,
 or
 Interim Certificate (Grades P-12) endorsed in Japanese

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6 or 1-9) endorsed in Japanese

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in Japanese,
or

Secondary Certificate (Grades 6-12) endorsed in Japanese, or
Interim Certificate (Grades 6-12) endorsed in Japanese

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in Japanese, or
Elementary Certificate (Grades 1-9) endorsed in Japanese, or
Interim Certificate (Grades 4-8) endorsed in Japanese

555030**Language Arts (P-6)**

Reading, writing, speaking, listening, viewing, presenting, grammar and usage, capitalization, punctuation, spelling, handwriting and vocabulary

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or

Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or

Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or

Elementary Certificate (Grades K-6), or

Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or

Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or

Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or

Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in reading (Grades P-12), or

Reading Specialist Certificate, or

Interim Certificate (Grades P-12) endorsed in reading

ELEMENTARY GRADES

Elementary Certificate, or

Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or

Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or

Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or English, or
Secondary Certificate (Grades 6-12) endorsed in English language arts, or English, or
Special Alternative Certificate (Grades 6-12) endorsed in English language arts, or
Interim Certificate (Grades 6-12) endorsed in English language arts, or English

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in language arts, or English, or English language arts, or generalist, or
Elementary Certificate (Grades 1-9), or
Special Alternative Certificate (Grades 4-8) endorsed in English language arts, or
Interim Certificate (Grades 4-8) endorsed in English language arts, or generalist, or English, or language arts

555040 Mathematics (P-6)

Number sense; numeration; basic computational and problem solving skills; common fractions; decimals; percents; measurement systems; pre-geometry skills; basic probability and statistics concepts; ratios and proportions; real-life applications; mathematical reasoning and communication; exploration of patterns; charts, tables, and graphs; symmetry; pre-algebra concepts

555041 Remedial Mathematics (P-6)

Basic computational and problem solving skills, math difficulties, skills acquisition, student needs diagnosis

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
Elementary Certificate (Grades K-6), or
Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades birth-kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or
Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

ELEMENTARY GRADES

Elementary Certificate, or
 Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
 Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
 Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in mathematics, or
 Secondary Certificate (Grades 6-12) endorsed in mathematics, or
 Special Alternative Certificate (Grades 6-12) endorsed in mathematics, or
 Interim Certificate (Grades 6-12) endorsed in mathematics

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in mathematics, or generalist, or
 Elementary Certificate (Grades 1-9), or
 Special Alternative Certificate (Grades 4-8) endorsed in mathematics, or
 Interim Certificate (Grades 4-8) endorsed in mathematics, or generalist

555051**Music (P-5)**

Singing; performing on instruments; reading and notating; listening; analyzing and describing; improvising; composing and arranging; conducting cues

(NOTE: For Grade 6 Music, see Music, Instrumental Music, and Vocal Music courses listed in the Secondary Courses section.)

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in general music (Grades P-12), or instrumental music (Grades P-12), or vocal/choral music/choral music (Grades P-12), or
 General Music Certificate (Grades P-8), or
 Elementary Certificate (Grades 1-9) endorsed in general music, or
 Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in instrumental music, or vocal/choral music/choral music, or
 Special Alternative Certificate (Grades P-12) endorsed in instrumental music, or vocal/choral music/choral music, or
 Interim Certificate (Grades P-12) endorsed in instrumental music, or vocal/choral music/choral music

PRIMARY GRADES

Early Childhood Certificate endorsed in general music

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6) endorsed in general music

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in general music, or instrumental music, or vocal/choral music/choral music, or
 Interim Certificate (Grades 4-8) endorsed in general music, or instrumental music, or vocal/choral music/choral music

555062 Physical Education (P-6)
Motor skill development, health enhancing physical activity,
interactive behavior

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES

Elementary Certificate (Grades 1-6) endorsed in physical education, or
Elementary Certificate (Grades 1-9) endorsed in physical education, or health
and physical education (009)

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in health and physical education
(009, Grades P-12), or physical education (Grades P-12), or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in physical
education, or
Special Alternative Certificate (Grades P-12) endorsed in physical education, or
Interim Certificate (Grades P-12) endorsed in physical education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in physical
education, or
Secondary Certificate (Grades 6-12) endorsed in physical education, or
Interim Certificate (Grades 6-12) endorsed in physical education

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in physical education, or
Elementary Certificate (Grades 1-9) endorsed in health and physical education
(009), or physical education

555070 Reading (P-6)
Skills acquisition, reading techniques, beginning reading to
expanding reading power

555071 Remedial Reading (P-6)
Reading difficulties, skills building, student needs diagnosis

**NOTE: For teaching reading to students with disabilities in
grades P-6, see 651608 Collaborative Special Education:
Elementary.**

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any professional certificate endorsed in reading, or
Reading Specialist Certificate, or
Early Childhood Certificate or
Elementary Certificate, or
Reading Teacher Certificate (Grades 1-6), or
Special Alternative Certificate (Grades P-12) endorsed in reading, or
Interim Certificate (Grades P-12) endorsed in reading, or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades 1-6) endorsed in elementary education, or
Interim Certificate (Grades K-6) endorsed in elementary education and early
childhood education (00K)

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
 Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
 Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
 Interim Certificate (Grades birth – kindergarten) endorsed in early childhood education (0BK), or
 Interim Certificate (Grades K-6) endorsed in early childhood education (00K)

PRIMARY GRADES

Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
 Special Alternative Certificate (Grades K-6) endorsed in elementary education and early childhood education (00K)

ELEMENTARY GRADES

Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
 Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or English, or
 Secondary Certificate (Grades 6-12) endorsed in English language arts, or English, or
 Interim Certificate (Grades 6-12) endorsed in English language arts, or English

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in generalist, or language arts, or English language arts, or English, or
 Secondary Certificate endorsed in language arts, or English language arts, or
 Special Alternative Certificate (Grades 4-8 or 6-12) endorsed in English language arts, or
 Interim Certificate (Grades 4-8) endorsed in generalist, or language arts, or English language arts, or English, or
 Interim Certificate (Grades 6-12) endorsed in English language arts, or
 Interim Certificate (Grades 7-12) endorsed in language arts

555024**Russian (P-6)**

Development of beginning listening, speaking, reading, and writing skills involving familiar topics with focus on oral language use; recognition of basic sound distinctions and intonation patterns; basic elements of Russian-speaking cultures.

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in Russian (Grades P-12), or
 Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in Russian, or
 Interim Certificate (Grades P-12) endorsed in Russian

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6 or 1-9) endorsed in Russian

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in Russian, or
 Secondary Certificate (Grades 6-12) endorsed in Russian, or
 Interim Certificate (Grades 6-12) endorsed in Russian

MIDDLE SCHOOL GRADES

Elementary Certificate (Grades 1-9) endorsed in Russian, or
 Middle School Certificate endorsed in Russian, or
 Interim Certificate (Grades 4-8) endorsed in Russian

555080**Science (P-5)**

Scientific processes, knowledge, and application; scientific principles, observation, and experimentation in life, physical and earth sciences

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
 Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
 Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
 Elementary Certificate (Grades K-6), or
 Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
 Interim Certificate (Grades birth-kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or
 Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
 Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

ELEMENTARY GRADES

Elementary Certificate, or
 Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
 Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
 Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or
 Elementary Certificate (Grades 1-9), or
 Special Alternative Certificate (Grades 4-8) endorsed in general science, or
 Interim Certificate (Grades 4-8) endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist

555083 Earth and Space Science (Grade 6)

Scientific process and application skills; weather; Earth's surface; water and carbon cycles; plate tectonic theory; hydrosphere; lithosphere; Earth's biomes; heating and cooling of the Earth; moon phases; components of the universe

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADE SIX

Elementary Certificate, or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
Middle School Certificate endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or
Secondary Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or
Alternative Baccalaureate-Level Certificate (Grades 6-8), endorsed in general science, or biology, or chemistry, or physics, or
Special Alternative Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or
Special Alternative Certificate (Grades 4-8) endorsed in general science, or
Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
Interim Certificate (Grades 4-8) endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or
Interim Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or earth and space science

555029 Sign Language, American (P-6)

Development of communicative skills (including vocabulary and grammar acquisition); culture study

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in American Sign Language (0N8), or
Any Professional Educator Certificate AND at least a valid Provisional Certificate issued by the American Sign Language Teachers Association.

NOTE: Requirements for proper certification are likely to change over time but not before the 2009-2010 academic year.

555090 Social Studies (P-6)

History, geography, economics, political science

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (0BK), or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
Elementary Certificate (Grades K-6), or
Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades birth-kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or
Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

ELEMENTARY GRADES

Elementary Certificate, or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general social science (022), or history, or geography, or
Secondary Certificate (Grades 6-12) endorsed in general social science (022), or history, or political science, or geography, or economics, or psychology, or sociology, or
Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or geography, or history, or
Interim Certificate (Grades 6-12) endorsed in general social science (022), or history, or political science, or geography, or economics, or psychology, or sociology

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or psychology, or generalist, or
Elementary Certificate (Grades 1-9), or
Special Alternative Certificate (Grades 4-8) endorsed in general social science (022), or
Interim Certificate (Grades 4-8) endorsed in general social science (022), or history, or political science, or geography, or economics, or psychology, or sociology, or generalist

555025

Spanish (P-6)

Development of beginning listening, speaking, reading, and writing skills involving familiar topics with focus on oral language use; recognition of basic sound distinctions and intonation patterns; basic elements of Spanish-speaking cultures.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in Spanish (023, Grades P-12), or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in Spanish, or
Special Alternative Certificate (Grades P-12) endorsed in Spanish, or
Interim Certificate (Grades P-12) endorsed in Spanish

ELEMENTARY GRADES

Elementary Certificate (Grades 1-6 or 1-9) endorsed in Spanish

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in Spanish, or
Special Alternative Certificate (Grades 6-12) endorsed in Spanish, or
Secondary Certificate (Grades 6-12) endorsed in Spanish, or
Interim Certificate (Grades 6-12) endorsed in Spanish

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in Spanish, or
Elementary Certificate (Grades 1-9) endorsed in Spanish, or
Interim Certificate (Grades 4-8) endorsed in Spanish

555150 Technology Education (P-6)

Apply knowledge in the basic use of tools, manipulating material, and applying technical processes; assist in making informed and meaningful occupational choices

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ELEMENTARY GRADES

Elementary Certificate, or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADE SIX

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in career technologies (011), or
Secondary Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or
Special Alternative Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or
Interim Certificate (Grades 6-12) endorsed in career technologies/technology education (011)

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in career technologies/technology education (011), or
Elementary Certificate (Grades 1-9), or
Interim Certificate (Grades 4-8) endorsed in career technologies/technology education (011)

ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in career technologies/technology education (011, Grades P-12), or
Interim Certificate (Grades P-12) endorsed in career technologies/technology education (011)

555101 Theatre (P-5)
Improvisation; dramatization; process-centered; elements of dramatic performance; aesthetics; criticism; history

(NOTE: For Grade 6 Theatre, see Theatre courses listed in the Secondary Courses section.)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (OBK), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood education (OBK)

KINDERGARTEN

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood education (OBK), or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in early childhood education (00K), or
Elementary Certificate (Grades K-6), or
Interim Certificate (Grades K-6) endorsed in early childhood education (00K), or
Interim Certificate (Grades birth-kindergarten) endorsed in early childhood education (0BK)

PRIMARY GRADES

Early Childhood Certificate, or
Special Alternative Certificate (Grades P-3) endorsed in early childhood education (0H5), or
Interim Certificate (Grades P-3) endorsed in early childhood education (0H5)

ELEMENTARY GRADES

Elementary Certificate, or
Elementary Multiple Abilities Certificate (Grades K-6) endorsed in elementary education, or
Special Alternative Certificate (Grades K-6 or 1-6) endorsed in elementary education, or
Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

MIDDLE SCHOOL GRADES

Middle School Certificate endorsed in language arts, or speech communication/theatre, or generalist, or English language arts, or English, or
Elementary Certificate (Grades 1-9), or
Special Alternative Certificate (Grades 4-8) endorsed in English language arts, or
Interim Certificate (Grades 4-8) endorsed in language arts, or English language arts, or speech communication/theatre, or generalist

PRIMARY GRADES OR ELEMENTARY GRADES OR MIDDLE SCHOOL GRADES

Elementary-Secondary Certificate endorsed in speech communication/theatre (Grades P-12), or theatre (Grades P-12), or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in theatre, or
Special Alternative Certificate (Grades P-12) endorsed in theatre, or
Interim Certificate (Grades P-12) endorsed in speech communication/theatre, or theatre

SECONDARY COURSES

ARTS EDUCATION

This section lists Arts Education courses in the areas of Arts Survey, Dance, Music (music, instrumental music, and vocal music), Theatre, and Visual Arts. This section includes the courses from which the one-half arts education credit required for graduation may be selected. Some of the listed courses cannot be used to meet the one-half arts education credit required for graduation. **The courses that cannot be used for the one-half arts education credit required for graduation have a statement indicating they cannot be used for that requirement.**

ARTS SURVEY

500100

Arts Survey

Produce original projects; utilize the creative process; elements and principals of organization in dance, music, theatre, and visual arts; analyze, compare, describe, classify works of art in dance, music, theatre and visual arts; vocabulary; performance and exhibition space; audience behavior; technology

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES NINE THROUGH TWELVE

Secondary Certificate or Elementary-Secondary Certificate endorsed in art/visual arts (001), or dance, or general music, or vocal/choral music/choral music, or instrumental music, or speech communication/theatre, or theatre, or dramatic arts, or

Alternative Baccalaureate-Level Certificate (Grades 9 –12) endorsed in art/visual arts (001), or dance, or instrumental music, or vocal/choral music/choral music, or theatre, or

Special Alternative Certificate (Grades P-12) endorsed in art/visual arts (001), or instrumental music, or vocal/choral music/choral music, or theatre, or dance, or

Interim Certificate (Grades P-12) endorsed in art/visual arts (001), or instrumental music, or vocal/choral music/choral music, or speech communication/theatre, or theatre, or dance, or

Interim Certificate (Grades 6-12 or 7-12) endorsed in instrumental music, or vocal/choral music/choral music, or speech communication/theatre, or theatre

DANCE

500311

Dance Level I

Elements of dance and movement—time, space, and energy; movement safety; analyze and solve movement problems; improvisation; dance compositions integrated studies; criticism; history

500312

Dance Level II (Prerequisite: Dance Level I or approval of the instructor)

Continuation of elements of movement and dance—time, space, and energy—as compositional components; technical and perception skills; awareness and analysis of movement sequences; spontaneous creation, critical evaluations; understanding of basic concepts

- 500313 Dance Level III (Prerequisite: Dance Level II or approval of the instructor)**
Continuation of elements of movement and dance—time, space, and energy; utilize technology as a tool in compositional problem solving; choreograph; perform; evaluate; analyze, history
- 500314 Dance Level IV (Prerequisite: Dance Level III or approval of the instructor)**
Contact improvisation; memorize and perform choreography from established dance repertoire; dance safely and efficiently in solo, small group and large group configurations; understand and analyze dance works for form, content, design elements, and performance qualities; dance health and safety; current trends in dance technology
- 500306 Historical and Cultural Dance Forms (Cannot be used to meet the one-half arts education credit required for graduation)**
Cultural studies; emphasis on dance and its origins; advanced historical studies of western and nonwestern dance forms
- 500308 Dance Techniques (Cannot be used to meet the one-half arts education credit required for graduation)**
Formalized dance techniques; including ballet, modern dance, jazz dance, tap dance, flamenco; studies in historical origins and theories; aesthetics; criticism; integration of technology

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Middle School Certificate endorsed in physical education, or
Elementary-Secondary Certificate endorsed in health and physical education (009, Grades P-12), or physical education (Grades P-12), or dance (Grades P-12), or
Secondary Certificate (Grades 6-12) endorsed in physical education, or
Elementary Certificate (Grades 1-9) endorsed in health and physical education (009), or
physical education, or
Special Alternative Certificate (Grades P-12) endorsed in physical education, or dance,
or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in dance, or
Interim Certificate (Grades 6-12) endorsed in physical education, or
Interim Certificate (Grades P-12) endorsed in physical education, or dance

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in health and physical education (009), or
physical education

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in health and physical education (009), or physical
education, or recreation, or
Elementary-Secondary Certificate endorsed in health and physical education (009), or
physical education, or recreation, or dance, or
Special Alternative Certificate (Grades P-12) endorsed in physical education, or dance,
or
Interim Certificate (Grades 6-12 or 7-12) endorsed in physical education, or
Interim Certificate (Grades P-12) endorsed in physical education, or dance

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in dance

MUSIC

Music

NOTE: These Music courses cannot be used to meet the one-half arts education credit required for graduation. See Instrumental Music and Vocal Music courses following this section.

- 500902 Music (6-8)**
Singing; performing on instruments; reading and notating; listening; making informed musical judgments; understanding relationships between music and other academic disciplines; understanding historical and cultural heritages; demonstrating proper audience and performer etiquette. **A student may only take this course one time.** Students are encouraged to continue musical experiences through band (instrumental) or choir (vocal).
- 500952 Music Theory, Advanced Placement (Cannot be used to meet the one-half arts education credit required for graduation)**
Musical structure; analysis of composition; notational systems; arrangement for instruments and/or voices; improvisational accompaniment on piano or other instruments
- 500959 Music, Listening and Literature, Advanced Placement (Cannot be used to meet the one-half arts education credit required for graduation)**
Development of rigorous listening techniques, vocabulary and familiarity with various compositions
- 500963 Music Appreciation (Cannot be used to meet the one-half arts education credit required for graduation)**
Hearing and studying music; music forms and genres; music styles of different historical periods

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

- Elementary-Secondary Certificate endorsed in general music (Grades P-12), or vocal/choral music/choral music (Grades P-12), or instrumental music (Grades P-12), or
- Special Alternative Certificate (Grades P-12) endorsed in instrumental music, or vocal/choral music/choral music, or
- Interim Certificate (Grades P-12) endorsed in instrumental music, or vocal/choral music/choral music

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in instrumental music, or vocal/choral music/choral music, or
- Middle School Certificate endorsed in vocal/choral music/choral music, or instrumental music, or general music, or
- Elementary Certificate (Grades 1-9) endorsed in general music, or
- General Music Certificate (Grades P-8), or
- Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in instrumental music, or vocal/choral music/choral music, or
- Interim Certificate (Grades 4-8) endorsed in general music, or instrumental music, or vocal/choral music/choral music, or
- Interim Certificate (Grades 6-12) endorsed in instrumental music, or vocal/choral music/choral music

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general music, or instrumental music, or vocal/choral music/choral music, or

Interim Certificate (Grades 6-12 or 7-12) endorsed in instrumental music, or vocal/choral music/choral music

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in instrumental music, or vocal/choral music/choral music

Instrumental Music

- 500912 Instrumental Level I (one credit)**
500913 Instrumental Level I (one-half credit)
Playing instruments; elements of music; perform; compose; criticism; producing sounds; conducting patterns; demonstrating components essential to the production of characteristic tones, including posture, ear, embouchure, attack, breath support, sustaining tone, and release; sight-reading unison literature and rhythms; developing full spectrum if scales; developing mastery of rudiments; listening to an imitating the tone; history
- 500914 Instrumental Level II (one credit)**
500915 Instrumental Level II (one-half credit)
(Prerequisite: Instrumental Level I or approval of the instructor)
Perform; compose; analysis; criticism; history; elements of music; conducting patterns; notate; widen range of dynamics characteristic sounds; taper releases; sight-read Grade II literature; develop scales and rudiments; play in a wide variety of keys
- 500916 Instrumental Level III (one credit)**
500917 Instrumental Level III (one-half credit)
(Prerequisite: Instrumental Level II or approval of the instructor)
Perform; compose; analysis; criticism; history; characteristic tone in all registers; intonation; balance; sight-read Grade III literature; scales and rudiments required in Level III music standards; notate
- 500918 Instrumental Level IV (one credit)**
500919 Instrumental Level IV (one-half)
(Prerequisite: Instrumental Level III or approval of the instructor)
Perform; compose; analysis; criticism; history; characteristic tone in all registers; intonation; balance; sight-read Grade IV literature; scales and rudiments required in Level IV music standards; notate
- 500907 Band, Jazz**
Dixieland, small-band jazz, swing, bebop, free jazz, and fusion, among other styles
- 500909 Band, Concert**
Experienced players; tone production; sight reading; ear training; intonation and technical facility; performances

500910 **Band, Marching**
Participation in band, playing, marching, music development

500911 **Band, Symphonic**
Tone production, tone quality; group playing

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in general music (Grades P-12), or instrumental music (Grades P-12), or
Special Alternative Certificate (Grades P-12) endorsed in instrumental music, or
Interim Certificate (Grades P-12) endorsed in instrumental music

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in instrumental music, or
Middle School Certificate endorsed in general music, or instrumental music, or
General Music Certificate (Grades P-8), or
Elementary Certificate (Grades 1-9) endorsed in general music, or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in
instrumental music, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in instrumental music

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general music, or instrumental music, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in instrumental music

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in
instrumental music

Vocal Music

500937 **Vocal Level I (one credit)**

500938 **Vocal Level I (one-half credit)**

Sing; sight-sing unison literature; perform; improvise; create; identify musical compositions, composers, and musical styles; listen; compare; analyze, critique; rhythmic dictation; elements of music; key signatures

500939 **Vocal Level II (one credit)**

500940 **Vocal Level II (one-half credit)**

(Prerequisite: Vocal Level I or approval of the instructor)

Sing varied repertoire; sight-sing two- and three-part literature; embellish melodies; perform; analyze, critique; melodic dictation; elements of music; key signatures; history

500941 **Vocal Level III (one credit)**

500942 **Vocal Level III (one-half credit)**

(Prerequisite: Vocal Level II or approval of the instructor)

Sing varied repertoire; sight-sing four-part literature; improvise harmonies; perform; analyze, critique; melodic dictation; elements of music; key signatures; history; minor scales

- 500943** **Vocal Level IV (one credit)**
500944 **Vocal Level IV (one-half credit)**
(Prerequisite: Vocal Level III or approval of the instructor)
Sing varied repertoire; sight-sing multipart literature; improvise vocally; perform; analyze, critique; circle of fifths; history; minor scales
- 500947** **Vocal Ensemble**
Madrigal singers; concert chorale; a cappella choir; mixed chorus ensembles

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in general music (Grades P-12), or vocal/choral music/choral music (Grades P-12), or Special Alternative Certificate (Grades P-12) endorsed in vocal/choral music/choral music, or Interim Certificate (Grades P-12) endorsed in vocal/choral music/choral music

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in vocal/choral music/choral music, or Middle School Certificate endorsed in general music, or vocal/choral music/choral music, or General Music Certificate (Grades P-8), or Elementary Certificate (Grades 1-9) endorsed in general music, or Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in vocal/choral music/choral music, or Interim Certificate (Grades 6-12 or 4-8) endorsed in vocal/choral music/choral music

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general music, or vocal/choral music/choral music, or Interim Certificate (Grades 6-12 or 7-12) endorsed in vocal/choral music/choral music

GRADES NINE THROUGH 12

Alternative Baccalaureate Level Certificate (Grades 9-12) endorsed in vocal/choral music/choral music

THEATRE

- 500561** **Theatre Level I**
Produce; respond to productions; vocal kinesthetic, emotional analytical, and intellectual elements of theatrical training; dramatic structure; acting process, including the collaborative nature of a theatrical production and the role of the production staff; theatre history; theatre vocabulary; concepts of aesthetics; evaluating artistic choices

- 500562 Theatre Level II (Prerequisite: Theatre Level I or approval of the instructor)**
Produce; character development; script analysis; collaboration; role of technical theatre in a production; self-evaluation; legal and ethical issues; theatre history; concepts of theatre, including elements of theatre and styles of performance; stage combat; improvisation; playwriting; technology
- 500563 Theatre Level III (Prerequisite: Theatre Level II or approval of the instructor)**
Create; improvisation; write scripts, direct, perform; theatre history; theatre vocabulary; aesthetics; criticism; characterization; analysis; interpretation; technical work; technology; compare fundamental elements used for communication with other art forms
- 500564 Theatre Level IV (Prerequisite: Theatre Level III or approval of the instructor)**
Advance level of script writing; directing; performing; creating; interpreting; analyzing; history; playwrights; multimedia production; modern technology; career options
- 500511 Theatre Production (Cannot be used to meet the one-half arts education credit required for graduation)**
Set design; construction; makeup; costumes; stage lighting; scene cutting; overview of production process
- 500520 Acting (Cannot be used to meet the one-half arts education credit required for graduation)**
Vocal production; movement; improvisation; methods; styles; script and character analysis; overview of production process
- 500530 Directing (Cannot be used to meet the one-half arts education credit required for graduation)**
Roles; staging conventions; literature analysis; production plan; blocking techniques; overview of production process
- 500540 Theatre, Designing/Technical (Cannot be used to meet the one-half arts education credit required for graduation)**
Components; functions; scenery design and construction; lighting production and design; costuming; sound; stage management; overview of production process
- 500550 Playwriting (Cannot be used to meet the one-half arts education credit required for graduation)**
Elements and forms of plays; process of playwriting; function of playwrights; collaboration with directors, actors, designers, and technicians; overview of production process

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in English language arts, or speech communication/theatre, or English, or
- Middle School Certificate endorsed in English language arts, or language arts, or English, or speech communication/theatre, or generalist, or
- Elementary Certificate (Grades 1-9), or
- Elementary-Secondary Certificate endorsed in theatre (Grades P-12), or speech communication/theatre (Grades P-12), or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or theatre, or
Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in theatre, or
Special Alternative Certificate (Grades 6-12 or 4-8) endorsed in English language arts, or
Interim Certificate (Grades 4-8) endorsed in English, or language arts, or English language arts, or generalist, or speech communication/theatre, or
Interim Certificate (Grades 6-12) endorsed in English language arts, or speech communication/theatre, or English

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9), or
Secondary Certificate (Grades 6-12 or 7-12) endorsed in English, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in English

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in language arts, or English language arts, or speech, or dramatic arts, or speech communication/theatre, or
Elementary-Secondary Certificate endorsed speech communication/theatre, or theatre, or
Special Alternative Certificate (Grades 6-12 or 7-12) endorsed in language arts, or English language arts, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in English language arts, or language arts, or speech communication/theatre

MIDDLE SCHOOL GRADES OR JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Special Alternative Certificate (Grades P-12) endorsed in theatre, or
Interim Certificate (Grades P-12) endorsed in theatre, or speech communication/theatre

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in English language arts, or theatre

VISUAL ARTS

- 500731 Visual Arts Level I**
Create; produce; elements and principals of design; two- and three-dimensional techniques and media; art history; art vocabulary; aesthetics; criticism; solution of art problems to communicate ideas; safety issues with handling and storage of materials
- 500732 Visual Arts Level II (Prerequisite: Visual Arts Level I or approval of the instructor)**
Create; visual relationships; problem solve using a variety of media and techniques; elements and principles of design; aesthetics; criticism; art history; art vocabulary; evaluation of artwork; interdisciplinary connections
- 500733 Visual Arts Level III (Prerequisite: Visual Arts Level II or approval of the instructor)**
Create; problem solve; utilize variety of media and techniques; communicate concepts, emotions, intentions; elements and principles of design; diverse range of technology, independent research; self-directed sketchbook; critical analysis, aesthetics; art history; interdisciplinary connections

- 500734 Visual Arts Level IV (Prerequisite: Visual Arts level III or approval of the instructor)**
Advance level of art production in a variety of media; portfolio production; thematically related body of work; self-evaluation; documentation; preparation and exhibition of artwork; aesthetics; criticism and art history; interpretation; architectural studies; interdisciplinary connections
- 500705 Graphic Arts**
Elements and principles of design; problem-solving using appropriate media, techniques, or processes; integration of technology; aesthetics; criticism; art history; evaluation of artwork
- 500708 Two-Dimensional Art**
Two-dimensional design; problem-solving using a variety of media and techniques; elements and principles of design; aesthetics; criticism and art history; evaluation of artwork
- 500715 Photography**
Elements and principles of design; aesthetics; criticism and art/photography history; evaluation of artwork; proper care and storage of photography supplies; artwork production through the integration of appropriate media and techniques; communication of ideas; solution of artistic problems; use of technology
- 500720 Three-Dimensional Art**
Three-dimensional design; problem-solving using a variety of media and techniques; elements and principles of design; technology; aesthetics; criticism and art history; evaluation of artwork
- 500724 Art Appreciation (Cannot be used to meet the one-half arts education credit required for graduation)**
Art history; aesthetics; criticism; analysis; interpretation
- 500710 Drawing, Advanced Placement**
Portfolio production addressing quality- demonstrate mastery of drawing in concept, composition, and execution; concentration- a body of work investigating a visual idea in drawing; breadth- variety of concepts and approach in drawing; documentation of artwork
- 500711 Two-Dimensional Design, Advanced Placement**
Portfolio production addressing quality- demonstrate mastery of design in concept, composition, and execution; concentration- a body of work investigating a visual idea in 2-D design; breadth- variety of concepts and approach in 2-D design; documentation of artwork
- 500712 Three-Dimensional Design, Advanced Placement**
Portfolio production addressing quality- demonstrate mastery of design in concept, composition, and execution; concentration- a body of work investigating a visual idea in 3-D design; breadth- variety of concepts and approach in 3-D design; documentation of artwork
- 500726 Art History, Advanced Placement (Cannot be used to meet the one-half arts education credit required for graduation)**
Art history; western and non-western art; cultural influences in art; prehistoric through contemporary art; discovery and preservation of art; aesthetics; criticism; analysis and interpretation

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in art/visual arts (001, Grades P-12),
or
Special Alternative Certificate (Grades P-12) endorsed in art/visual arts (001), or
Interim Certificate (Grades P-12) endorsed in art/visual arts (001)

GRADES SIX THROUGH EIGHT

Middle School Certificate endorsed in art/visual arts (001), or
Elementary Certificate (Grades 1-9) endorsed in art/visual arts (001), or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in
art/visual arts (001), or
Secondary Certificate (Grades 6-12) endorsed in art/visual arts (001), or
Interim Certificate (Grades 6-12 or 4-8) endorsed in art/visual arts (001)

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in art/visual arts (001), or
Interim Certificate (Grades 6-12 or 7-12) endorsed in art/visual arts (001)

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in art/visual
arts (001)

CAREER EXPLORATION

320107

Career Exploration

Business community exploration; career observation, unpaid
expense, site visits, career planning. See Career-Technical
Education Courses: Career Technologies for Career Exploration
courses in that area.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any Professional Educator Certificate

CHINESE

160202

Chinese Exploratory

Listening, speaking, reading, and writing skills involving familiar
topics; understanding and responding to simple expressions;
writing using learned vocabulary; introduction to Chinese-speaking
cultures

160203

Chinese 1

Listening and speaking skills including understanding and
responding to simple directions, expressions of courtesy, and
questions related to daily routines; reading and writing skills
including words and phrases used in basic situational contexts;
beginning understanding of Chinese-speaking cultures

- 160204 Chinese 2**
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of Chinese-speaking cultures
- 160205 Chinese 3**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating oral and written presentations on a variety of topics; increased understanding of Chinese-speaking cultures
- 160206 Chinese 4**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating written compositions through the use of poetry or prose; extensive understanding of Chinese-speaking cultures

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Alternative Baccalaureate-Level Certificate (Grades K-8 or 6-8) endorsed in Chinese

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate or Elementary-Secondary Certificate endorsed in Chinese, or foreign languages (082)

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (grades 9 – 12) endorsed in Chinese

CURRENT EVENTS

- 451014 Contemporary Issues (High School Elective Course)**
Current events of local, state, national, and international interest; media information analysis, political coverage, and techniques; analysis of current events from geographical, historical, political, social, and cultural perspectives

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or economics, or political science, or psychology, or sociology, or

Middle School Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or generalist, or

Elementary Certificate (Grades 1-9), or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general social science (022), or history, or geography, or
 Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or geography, or history, or
 Special Alternative Certificate (Grades 4-8) endorsed in general social science (022), or
 Interim Certificate (Grades 4-8) endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or generalist, or
 Interim Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or economics, or political science, or psychology, or sociology

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or anthropology, or
 Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or geography, or history, or
 Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or anthropology

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022), or history, or geography

DRIVER EDUCATION

- 340150 Driver Education, Classroom and Practice**
Safe driving theory; in class study; driving hazards; boating safety; behind the wheel experience; safety practices
- 340151 Driver Education, Classroom**
Safe driving theory; in class study; driving hazards; boating safety
- 340152 Driver Education, Practice**
Behind the wheel experience; safety practices

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in driver and traffic safety education, or
 Any Professional Educator Certificate AND successful completion of the 6 semester hours of required State Department of Education basic and advanced driver's education coursework. The employing school system must have on file verification that the teacher has successfully completed the required coursework, or
 Interim Certificate (Grades 6-12 or 7-12) endorsed in driver and traffic safety education, or
 Preliminary Certificate (Grades 6-12) endorsed in driver and traffic safety education

ECONOMICS

- 450602 Economics**
Basic elements of economics; comparative economic systems and economic theories; role of the consumer; business and labor issues; functions of government; structure of U. S. banking system; role of Federal Reserve bank
- 450605 Macroeconomics, Advanced Placement**
College level economics course following the curriculum established by the College Board Advanced Placement (AP) Program for macroeconomics
- 450606 Microeconomics, Advanced Placement**
College level economics course following the curriculum established by the College Board Advanced Placement (AP) Program for microeconomics

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

HIGH SCHOOL GRADES

Secondary Certificate endorsed in general social science (022), or economics, or business administration, or history and political science (040 and 041), or Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or economics, or history and political science (040 and 041)

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022)

ENGLISH AS A SECOND LANGUAGE

- 160121 English as a Second Language (7-12): Consultative/Co-Teaching Services or Resource Services**
This code applies to ESL/ELL teachers consulting/co-teaching with general education teachers in classes/courses at the secondary level (Grades 7-12). These teachers are responsible for (1) development of English-speaking communicative skills, including vocabulary and grammar acquisition, through listening, speaking, reading, and writing; and (2) culture study. These teachers are not responsible for teaching content and objectives in the respective Alabama state courses of study and do not award academic grades or credits.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Early Childhood Certificate, or
Elementary Certificate, or
Elementary-Secondary Certificate endorsed in English as a Second Language/English for Speakers of Other Languages, or French, or German, or Japanese, or Latin, or Russian, or Spanish, or
Secondary Certificate endorsed in French, or German, or Japanese, or Latin, or Russian, or Spanish, or

- Middle School Certificate endorsed in French, or German, or Japanese, or Latin, or Russian, or Spanish, or
- Special Alternative Certificate (Grades P-12) endorsed in English as a Second Language/English for Speakers of Other Languages, or French, or German, or Latin, or Spanish, or
- Interim Certificate (Grades P-12 or 4-8 or 6-12 or 7-12) endorsed in English as a Second Language/English for Speakers of Other Languages, or French, or German, or Japanese, or Latin, or Russian, or Spanish, or
- Interim Certificate (Grades P-3) endorsed in early childhood education (0H5), or
- Interim Certificate (Grades K-6 or 1-6) endorsed in elementary education

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in English, or English language arts, or
- Middle School Certificate endorsed in English language arts, or language arts, or English, or generalist, or
- Special Alternative Certificate (Grades 6-12) endorsed in English language arts, or French, or German, or Latin, or Spanish, or
- Alternative Baccalaureate Level Certificate (Grades 6-8) endorsed in English language arts, or English, or French, or German, or Japanese, or Latin, or Russian, or Spanish, or
- Alternative Baccalaureate-Level Certificate (Grades K-8) endorsed in French, or German, or Latin, or Spanish, or Russian, or Japanese, or
- Interim Certificate (Grades 4-8) endorsed in English, or English language arts, or language arts, or generalist, or
- Interim Certificate (Grades 6-12) endorsed in English, or English language arts

JUNIOR HIGH OR HIGH SCHOOL GRADES

- Secondary Certificate (Grades 6-12 or 7-12) endorsed in English, or language arts, or English language arts, or
- Special Alternative Certificate (Grades 6-12) endorsed in English, or English language arts, or language arts, or French, or German, or Latin, or Spanish, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in English, or language arts, or English language arts

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in English language arts, or French, or German, or Japanese, or Latin, or Russian, or Spanish

ENGLISH LANGUAGE ARTS, LITERATURE, AND COMPOSITION

- | | |
|---------------|---|
| 230100 | English, Remedial
Reading, writing, listening, speaking, viewing, and presenting skills; vocabulary study; mechanics; grammar and usage; spelling; study skills |
| 230101 | English, Basic
Reading, writing, listening, speaking, viewing, and presenting skills; vocabulary study; mechanics; grammar and usage; spelling; study skills |

- 230102 English, Honors**
Literature and rhetoric; analysis and composition; reading, writing, listening, speaking, viewing, and presenting skills; vocabulary study; mechanics; grammar and usage; spelling; study skills (refer to the Alabama Course of Study: English Language Arts for guidance in literature selection, grammatical concepts, and levels of achievement)
- 230103 English Language Arts/English (Grades 7, 8, 9, 10, 11, and 12)**
Reading, writing, listening, speaking, viewing, and presenting skills; literature interpretation and appreciation; vocabulary study; mechanics; grammar and usage; spelling; study skills (refer to the Alabama Course of Study: English Language Arts for guidance in literature selection, grammatical concepts, and levels of achievement)
- 230104 English, Advanced Placement**
College level English; literary genres: research paper; reading, writing, listening, speaking skills
- 230118 World Literature**
Reading and critiquing world literature
- 230122 Contemporary Literature**
Modern authors; thematic patterns; essay writing; reading and critiquing works of the 20th century including Jarrell, Brautigan, Dickey, and Updike
- 230125 Bible as Literature**
Study of the Old Testament; New Testament; heroes; prophecies; poetry and prose style
- 230126 Literature, Mythology and Fable**
Study of Greece and Rome; Egypt and Mesopotamia; China, Japan and India; mythologies and fables
- 230127 Drama, Introduction**
Play reading of dramatists such as Ibsen, Miller; critiquing
- 230128 Classical World Literature**
Reading and critiquing world classical literature
- 230130 Literature, Novels**
Readings, discussions and writings on selected novelists such as Hawthorne, Twain, and Melville
- 230131 Literature, Short Story**
Historical development; literary elements and characteristics; American and foreign short stories
- 230133 Poetry**
Figures of speech; melodic elements; poetic forms; modern poetry; survey of British and American poetry including Bradstreet, and Eliot
- 230137 Literature, Non-Fiction**
Catastrophe; adventure; essays; editorials; reading and critiquing
- 230138 Literature, Science Fiction**
Reading and critiquing of science fiction literature; UFOs; robots

- 230141 Ethnic Literature**
Short stories; essays; short novels on human values
- 230142 Women In Literature**
Study of women as heroines and as writers
- 230150 Literature, Nobel Prize Authors**
Study of O'Neill, Buck, Steinbeck, Hemingway; analysis of works of Nobel authors
- 230401 Composition, Expository**
Basic composition structure; models; skill improvement
- 230511 Creative Writing**
Composing poetry, short stories, and critical responses
- 230711 American Literature**
Major American writers; novels, short stories, dramas, poetry; chronological survey
- 230721 Black Literature**
Novels; short stories; plays; poetry; Black writers including African-American
- 230731 Mass Media**
Listening, analyzing, writing and discussing television, newspapers and film
- 230751 Indian Literature**
Study of Indian tribes and their literature; American Indian fables and myths
- 230760 Southern Writers**
Short stories, essays, novels by southern writers
- 230761 Literature, Alabama Writers**
Specific state writers; regional and ethnic literature
- 230811 British Literature Survey**
Study of Beowulf, Chaucer, Shakespeare, Milton, Keats; survey of British literature; Romantic and Victorian prose and poetry; contemporary British writers
- 230821 Literature, Shakespeare**
Comedies; tragedies; histories; play analysis; professional production attendance
- 230901 Independent Study (English Language Arts)**
Individualized study fulfilling specific reading and writing assignments
- 231101 Communication (Grades 11 and 12), Technical (Applied Communications)**
Combines language arts skills with career/technical applications; provides instruction and practice in reading, writing, speaking, listening and problem solving skills as they are used in the workplace. (Refer to the Alabama Course of Study: English Language Arts for guidance in the selection of literature.)

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in English language arts, or English, or
- Middle School Certificate endorsed in English, or language arts, or generalist, or English language arts, or
- Elementary Certificate (Grades 1-9), or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or English, or
- Special Alternative Certificate (Grades 6-12 or 4-8) endorsed in English language arts, or
- Interim Certificate (Grades 6-12) endorsed in English language arts, or English, or
- Interim Certificate (Grades 4-8) endorsed in English, or language arts, or English language arts, or generalist

JUNIOR HIGH GRADES

- Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in English, or language arts, or English language arts, or
- Special Alternative Certificate (Grades 6-12) endorsed in language arts, or English language arts, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in English, or language arts, or English language arts

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in English language arts, or English

ETHNIC STUDIES

- 050100 Area Studies**
History, society, politics, culture, and economics of a particular geographic region
- 050200 Ethnic Studies**
History, society, politics, culture and economics of subsets of the population sharing common racial characteristics or common traits and customs

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or economics, or political science, or psychology, or sociology, or
- Middle School Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or generalist, or
- Elementary Certificate (Grades 1-9), or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general social science (022), or history, or geography, or
- Special Alternative Certificate (Grades 6-12 or 4-8) endorsed in general social science (022), or

- Interim Certificate (Grades 4-8) endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or generalist, or
- Interim Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or economics, or political science, or psychology, or sociology

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or psychology, or
- Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or history, or geography, or economics, or political science, or psychology, or sociology

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022), or geography, or history

FRENCH

- 160902 French Exploratory**
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to French-speaking cultures
- 160903 French 1**
Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of French-speaking cultures
- 160904 French 2**
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of French-speaking cultures
- 160905 French 3**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating oral and written presentations on a variety of topics; increased understanding of French-speaking cultures

- 160906 French 4**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating written compositions through the use of poetry or prose; extensive understanding of French-speaking cultures
- 160908 French, Advanced Placement: Language**
Advanced-level college performance in listening, speaking, reading, and writing for a variety of situations with emphasis on vocabulary, structure, fluency, and accuracy; extensive writing of compositions
- 160909 French, Advanced Placement: Literature**
Advanced-level college performance in understanding, analyzing, and interpreting a variety of moderately difficult selections from French literature

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in French (Grades P-12), or foreign languages (082, Grades P-12), or
Special Alternative Certificate (Grades P-12) endorsed in French, or
Interim Certificate (Grades P-12) endorsed in French

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in French, or
Middle School Certificate endorsed in French, or
Elementary Certificate (Grades 1-9) endorsed in French, or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in French, or
Special Alternative Certificate (Grades 6-12) endorsed in French, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in French

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in French

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in French (007), or foreign languages (082), or
Special Alternative Certificate (Grades 6-12) endorsed in French, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in French

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in French

GEOGRAPHY

- 450704 World Geography (High School Elective Course)**
Major world geographic areas; interrelationships between people and habitat; political, social, cultural, and economic geography
- 450705 World Geography – Physical (High School Elective Course)**
Major landform features; Earth's climates, biomes, physical system, and resources; natural disasters

450706 World Geography – Human (High School Elective Course)
Interrelationships between people and habitat; human characteristics in major geographic regions; patterns of land use and population distribution; global economic interdependence

450707 Human Geography, Advanced Placement
College level geography course following the curriculum established by the College Board Advanced Placement (AP) Program for human geography

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9), or
Secondary Certificate endorsed in history, or political science, or sociology, or economics, or psychology, or anthropology, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in economics, or history, or political science, or psychology, or sociology

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general social science (022), or geography, or
Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or geography, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or geography

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022), or geography

GERMAN

160512 German Exploratory
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to German-speaking cultures

160513 German 1
Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of German-speaking cultures

160514 German 2
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of German-speaking cultures

160515 German 3
Listening and speaking skills including understanding and responding to factual and interpretive questions involving paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating oral and written presentations on a variety of topics; increased understanding of German-speaking cultures

- 160516 German 4**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating written compositions through the use of poetry or prose; extensive understanding of German-speaking cultures
- 160518 German, Advanced Placement: Language**
Advanced-level college performance in listening, speaking, reading, and writing for a variety of situations with emphasis on vocabulary, structure, fluency, and accuracy; extensive writing of compositions

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in German (Grades P-12), or foreign languages (082, Grades P-12), or
Special Alternative Certificate (Grades P-12) endorsed in German, or
Interim Certificate (Grades P-12) endorsed in German

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in German, or
Middle School Certificate endorsed in German, or
Elementary Certificate (Grades 1-9) endorsed in German, or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in German, or
Special Alternative Certificate (Grades 6-12) endorsed in German, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in German

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in German

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in German, or foreign languages (082), or
Special Alternative Certificate (Grades 6-12) endorsed in German, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in German

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in German

GOVERNMENT

- 451004 United States Government**
Origins, functions, and branches of U. S. government; representative democracy; federalism; political/civic life; analysis of Constitution, Bill of Rights, and other relevant documents; foreign policy
- 451006 Comparative Government and Politics, Advanced Placement**
College level government course following the curriculum established by the College Board Advanced Placement (AP) Program for Comparative government and politics
- 451008 U. S. Government and Politics, Advanced Placement**
College level government course following the curriculum established by the College Board Advanced Placement (AP) Program for U. S. government and politics

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

HIGH SCHOOL GRADES

Secondary Certificate endorsed in general social science (022), or political science, or history and economics (040 and 043), or political science and sociology (049), or
Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or
Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or political science, or history and economics (040 and 043)

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022)

GREEK

- 160621 Modern Greek 1**
Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of the Greek-speaking culture
- 160622 Modern Greek 2**
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of the Greek-speaking culture

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in Greek

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate or Elementary-Secondary Certificate endorsed in Greek, or foreign languages (082)

HEALTH

- 340131 Health**
Basic concepts of wellness and health promotion; accessing health information, products and services; application of health decision-making and goal-setting skills; impact of technology on health

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in health and physical education (009, Grades P-12), or health education (Grades P-12), or
Interim Certificate (Grades P-12) endorsed in health education

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in health education, or
Middle School Certificate endorsed in health education, or
Elementary Certificate (Grades 1-9), or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in health education, or
Special Alternative Certificate (Grades 6-12) endorsed in health education, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in health education

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in health and physical education (009), or health education, or
Special Alternative Certificate (Grades 6-12) endorsed in health education, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in health education

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in health education

HISTORY

- 450808 World History to 1500 (Grade 8 Course)**
Chronological history of the world: survey of early and classical civilizations; world expansion of agrarian and commercial civilizations
- 450809 World History: 1500 to the Present (Grade 9 Course)**
Chronological history of the world: the emergence of a global age; the Age of Revolutions; the Age of Isms; era of global war; the world from 1945 to present
- 450820 United States History to 1877 (Grade 10 Course)**
Chronological survey of major events and issues: colonization, American Revolution; development of political system and distinct culture; slavery; reform movements; sectionalism; Civil War, Reconstruction; concepts related to Alabama history and geography
- 450821 United States History from 1877 to the Present (Grade 11 Course)**
Chronological survey of major events and issues: industrialization; Progressivism; foreign policy; World War I; the Great Depression; World War II; post-war United States; contemporary United States, concepts related to Alabama history and geography
- 450814 United States History, Advanced Placement**
College level history course following the curriculum established by the College Board Advanced Placement (AP) Program for United States history
- 450844 European History, Advanced Placement**
College level history course following the curriculum established by the College Board Advanced Placement (AP) Program for European history
- 450846 World History, Advanced Placement**
College level history course following the curriculum established by the College Board Advanced Placement (AP) Program for world history

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in general social science (022), or history, or economics, or geography, or political science, or psychology, or sociology, or
- Middle School Certificate endorsed in general social science (022), or history, or economics, or geography, or political science, or psychology, or sociology, or generalist, or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general social science (022), or history, or geography, or
- Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or history, or
- Special Alternative Certificate (Grades 4-8) endorsed in general social science (022), or
- Interim Certificate (Grades 4-8 or 6-12) endorsed in general social science (022), or history, or economics, or geography, or political science, or psychology, or sociology, or generalist

JUNIOR HIGH GRADES

- Elementary Certificate (Grades 1-9), or
- Secondary Certificate endorsed in political science, or sociology, or economics, or geography, or psychology, or political science and sociology (049), or anthropology, or
- Special Alternative Certificate (Grades 6-12) endorsed in geography, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in economics, or geography, or political science, or psychology, or sociology

JUNIOR HIGH OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in general social science (022), or history, or
- Special Alternative Certificate (Grades 6-12) endorsed in history, or general social science (022), or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in history, or general social science (022)

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022), or history

ITALIAN

- 160913 Italian 1**
Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of the Italian-speaking culture
- 160914 Italian 2**
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of the Italian-speaking culture

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in Italian (0C0)

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate or Elementary-Secondary Certificate endorsed in Italian, or foreign languages (082)

JAPANESE

- 160912 Japanese Exploratory**
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to the Japanese-speaking culture
- 160915 Japanese 1**
Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of the Japanese-speaking culture
- 160916 Japanese 2**
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of the Japanese-speaking culture
- 160917 Japanese 3**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating oral and written presentations on a variety of topics; increased understanding of the Japanese-speaking culture
- 160918 Japanese 4**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating written compositions through the use of poetry or prose; extensive understanding of the Japanese-speaking culture

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in Japanese (Grades P-12), or foreign languages (082, Grades P-12), or
Interim Certificate (Grades P-12) endorsed in Japanese

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in Japanese, or
Middle School Certificate endorsed in Japanese, or
Elementary Certificate (Grades 1-9) endorsed in Japanese, or

Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in Japanese, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in Japanese

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in Japanese

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in Japanese, or foreign languages (082), or
Interim Certificate (Grades 6-12 or 7-12) endorsed in Japanese

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in Japanese

JOURNALISM

090411 Journalism 1
Newspaper study; newspaper production; news information gathering; proofreading; journalistic writing

090412 Journalism 2
Advanced newspaper work; laboratory course; layout; in-depth editing; publishing; finance

090413 Journalism 3
School newspaper management; advanced journalism

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in English, or English language arts, or journalism, or

Middle School Certificate endorsed in English, or language arts, or English language arts, or generalist, or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or English, or

Special Alternative Certificate (Grades 6-12) endorsed in English language arts, or

Special Alternative Certificate (Grades 4-8) endorsed in English language arts, or
Interim Certificate (Grades 6-12) endorsed in English, or English language arts, or journalism, or

Interim Certificate (Grades 4-8) endorsed in English, or English language arts, or language arts, or generalist

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9), or
Secondary Certificate (Grades 6-12 or 7-12) endorsed in English, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in English

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in journalism, or language arts, or English language arts, or

Special Alternative Certificate (Grades 6-12) endorsed in English language arts, or language arts, or

Interim Certificate (Grades 6-12 or 7-12) endorsed in language arts, or English language arts, or journalism

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in English language arts

LATIN

- 160920 Latin 1**
Introduction to the Latin language and Roman world including influence on cultures of Western world; basic vocabulary including pronunciation and spelling; translation with emphasis on reading, grammar, and culture
- 160921 Latin 2**
Intermediate grammar and vocabulary study; translation of works of authentic Roman authors; study of Roman culture including important persons, places, and events
- 160922 Latin 3**
Advanced grammar and vocabulary study; reading and analyzing primary prose sources including the history and culture of Rome during the Golden Age of Latin literature, the death of the Republic, and the formation of the Roman Empire; writing original Latin prose
- 160923 Latin 4**
Advanced grammar and vocabulary study; reading and analyzing original Latin poetry; identifying metrical patterns and poetic devices; writing original Latin poetry
- 160925 Latin, Advanced Placement: Vergil**
Advanced-level college performance in reading, translating, understanding, analyzing, and interpreting Vergil's *Aeneid*; grammar and vocabulary study; literary techniques; poetic meter; cultural, social, political context of literature studied; sight reading; writing of analytical and interpretive essays based on reading selections
- 160926 Latin, Advanced Placement: Literature**
Advanced-level college performance in reading, translating, understanding, analyzing, and interpreting original Latin poetry and prose; grammar and vocabulary study; literary techniques; poetic meter; cultural, social, political context of literature studied; sight reading; writing of analytical and interpretive essays based on reading selections

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in Latin (Grades P-12), or foreign languages (082, Grades P-12), or
Interim Certificate (Grades P-12) endorsed in Latin

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in Latin, or
Middle School Certificate endorsed in Latin, or
Elementary Certificate (Grades 1-9) endorsed in Latin, or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in Latin, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in Latin

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in Latin

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in Latin, or foreign languages (082), or Interim Certificate (Grades 6-12 or 7-12) endorsed in Latin

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in Latin

LIBRARY SCIENCES

250111 Library Science or Library Skills or Media Skills
Library skills development; using library automation systems for electronic card catalog searching and basic cataloging skills, Alabama Virtual Library use, Internet searching and analyzing electronic resources; understanding Dewey decimal system; use and operation of audiovisual equipment; proper citation methods for electronic and print materials; using bibliographies to create resource lists; fair use and copyright rules

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary Certificate (Grades 1-9), or Secondary Certificate, or Elementary-Secondary Certificate endorsed in library-media, or School Library-Media Specialist Certificate, or Interim Certificate (Grades P-12) endorsed in library-media, or Preliminary Certificate (Grades P-12) endorsed in library-media, or Special Alternative Certificate (Grades P-12) endorsed in library-media

MATHEMATICS

270102 Mathematics, Below Grade Level
Remedial work; computational skills; problem solving skills; simplified approach

270107 Mathematics, Grade 7
Basic computational skills; problem-solving skills; pre-geometry; basic algebra concepts and skills including algebraic expressions and linear equations; properties of numbers; basic probability and statistics

270108 Mathematics, Grade 8 (Pre-Algebra)
Problem-solving skills; expanded pre-geometry skills; expanded pre-algebra concepts including equations, inequalities, properties of numbers; functions; probability and statistics; Pythagorean Theorem

270404 Algebra I
Formal, in-depth study of algebraic concepts and the real number system; equations and inequalities; relations; functions; graphing; factoring; equations of lines; applying formulas to find perimeter, area, volume, circumference, distance, midpoint, and slope; systems of equations; quadratic, radical, and absolute value equations; basic probability and statistics; problem solving

- 270399 Technical Algebra I**
Same content as Algebra I; instruction involves an emphasis on applications and connection to real-life situations
- 270220 Algebra IA**
First part of a formal study of algebraic concepts and the real number system; approximately one-half the content of Algebra I
- 270230 Algebra IB**
Second part of a formal study of algebraic concepts and the real number system; approximately one-half the content of Algebra I
- 270408 Geometry**
Study of plane and solid geometry; theorems; lines; area; perimeter; volume; angle relationships; parallel and perpendicular lines; polygons; right-triangle trigonometry; congruence; similarity; study of axiomatic systems; Pythagorean Theorem; data analysis
- 270280 Technical Geometry**
Same content as Geometry; instruction involves an emphasis on applications and connection to real-life situations
- 270260 Geometry A**
First part of a study of plane and solid geometry; approximately one-half the content of Geometry
- 270270 Geometry B**
Second part of a study of plane and solid geometry; approximately one-half the content of Geometry
- 270403 Algebraic Connections**
Applied mathematical concepts of algebra and geometry; exponential growth and decay; linear programming, rate of change; extreme value of a quadratic function; probability and statistics; financial and economic skills
- 270405 Algebra II**
Advanced algebra topics; complex numbers; graphing; theory of equations; polynomials; irrational numbers; problem solving; logarithms; quadratic equations; systems of equations and inequalities; matrices; polynomial, exponential, and logarithmic functions; coordinate geometry; probability and statistics topics (same content as Algebra II with Trigonometry with the omission of trigonometry)
- 270320 Algebra II with Trigonometry**
Integrated course; advanced algebra topics; complex numbers; graphing; theory of equations; polynomials; irrational numbers; problem solving; logarithms; quadratic equations; systems of equations and inequalities; matrices; polynomial, exponential, and logarithmic functions; coordinate geometry; probability and statistics topics; trigonometry
- 270412 Algebra III with Statistics**
Advanced math course; advanced algebra requiring Algebra II with Trigonometry as a prerequisite; relations and functions; matrices; linear programming; trigonometric and exponential equations and inequalities; Binomial Theorem; polar coordinates; advanced statistical concepts, including descriptive statistics, hypothesis testing, confidence intervals, linear and quadratic regression

- 270417 Linear Algebra**
Advanced math course; matrices; systems of linear equations; vector spaces; modern algebra topics; analytic geometry
- 270350 Precalculus**
Advanced math course; pre-calculus topics; advanced algebra; analytic geometry; limits; vectors; quadratic functions; graph analysis; conic sections; parametric equations; sequences and series; logarithmic and exponential functions; matrices; trigonometry; polar-Cartesian conversions; statistical techniques
- 270419 Calculus**
Advanced math course; differential and integral calculus; analytic geometry topics; limits; functions
- 270418 Calculus and Analytic Geometry**
Combined advanced math course; approximately one-half year of calculus and one-half year of analytic geometry
- 270420 Calculus, Advanced Placement**
College level advanced math course following the curriculum established by the College Board Advanced Placement (AP) Program for calculus; calculus; analytic geometry; integrals; logarithmic functions; transcendental functions
- 270425 Statistics, Advanced Placement**
College level advanced math course following the curriculum established by the College Board Advanced Placement (AP) Program for statistics

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in mathematics, or
Middle School Certificate endorsed in mathematics, or generalist, or
Elementary Certificate (Grades 1-9), or
Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in mathematics, or
Special Alternative Certificate (Grades 6-12 or 4-8) endorsed in mathematics, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in mathematics

JUNIOR HIGH GRADES

- Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in mathematics, or
Special Alternative Certificate (Grades 6-12) endorsed in mathematics, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in mathematics

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in mathematics

MILITARY SCIENCE

- 280111 Air Science 1**
Leadership training for the Air Force; flight history; military drill
- 280311 Army ROTC 1**
Organization of the Army; leadership laboratory

- 280411 Naval Science 1**
Seapower; naval history; seamanship; leadership laboratory
- 280421 Marine Corps Leadership Education 1**
Introduction to leadership; key to success; leadership laboratory

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES
ROTC Certificate

PHILOSOPHY

- 380111 Philosophy**
Elementary logic; study of famous philosophers; Plato; Aristotle; Descartes
- 380121 Ethics**
Study of what is right or good conduct
- 380131 Logic**
Principles of argumentation and logical reasoning; analysis and interpretation of data

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES
Secondary Certificate endorsed in philosophy, or general social science (022), or Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022)

PHYSICAL EDUCATION

- 340114 Physical Education**
Motor skill development; health enhancing physical activity; interactive behavior

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT
Secondary Certificate (Grades 6-12) endorsed in physical education, or Middle School Certificate endorsed in physical education, or Elementary-Secondary Certificate endorsed in health and physical education (009, Grades P-12), or physical education (Grades P-12), or Elementary Certificate (Grades 1-9) endorsed in health and physical education (009), or physical education, or Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in physical education, or Special Alternative Certificate (Grades P-12) endorsed in physical education, or Interim Certificate (Grades 6-12 or P-12) endorsed in physical education

JUNIOR HIGH GRADES
Elementary Certificate (Grades 1-9) endorsed in health and physical education (009), or physical education

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate or Elementary-Secondary Certificate endorsed in health and physical education (009), or physical education, or recreation, or Special Alternative Certificate (Grades P-12) endorsed in physical education, or Interim Certificate (Grades P-12 or 6-12 or 7-12) endorsed in physical education

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in physical education

PSYCHOLOGY

420111 Psychology (High School Elective Course)
History of psychological inquiry; methods of scientific research; human development; sensation and perception; motivation and emotion; states of consciousness; social psychology, cognition; intelligence and assessment; personality theories; stress; mental disorders and treatments

420112 Psychology, Advanced Placement
College level course following the curriculum established by the College Board Advanced Placement (AP) Program for psychology

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate or Elementary-Secondary Certificate endorsed in psychology, or general social science (022), or school counselor, or Elementary Certificate (Grades 1-9) endorsed in school counselor, or School Counselor Certificate, or School Psychologist Certificate, or Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or psychology, or Interim Certificate (Grades P-12) endorsed in school counselor, or school psychologist

READING

320109 Reading, Remedial
Reading difficulties; skill acquisition; reading techniques remediation; word attack

320110 Reading Development Above Grade 6
Skill acquisition; reading techniques

320111 Speed Reading
Reading rate improvement; scanning; critical reading; research strategies; skill development

NOTE: For teaching reading to students with disabilities in grades 7-12, see 651603 Collaborative Special Education: English Language Arts.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any professional certificate endorsed in reading, or
 Reading Specialist Certificate, or
 Early Childhood Certificate, or
 Elementary Certificate, or
 Reading Teacher Certificate (Grades 1-6), or
 Special Alternative Certificate (Grades P-12) endorsed in reading, or
 Interim Certificate (Grades P-12) endorsed in reading, or
 Interim Certificate (Grades P-3) endorsed in early childhood education (0H5), or
 Interim Certificate (Grades 1-6) endorsed in elementary education, or
 Interim Certificate (Grades K-6) endorsed in elementary education and early
 childhood education (00K)

GRADES SIX THROUGH EIGHT

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English
 language arts

MIDDLE SCHOOL GRADES OR JUNIOR HIGH GRADES

Middle School Certificate endorsed in generalist, or language arts, or English
 language arts, or
 Secondary Certificate Grades (6-12 or 7-12) endorsed in language arts, or
 English language arts, or
 Special Alternative Certificate (Grades 4-8 or 6-12) endorsed in English language
 arts, or
 Interim Certificate (Grades 4-8) endorsed in generalist, or language arts, or
 English language arts, or
 Interim Certificate (Grades 6-12) endorsed in English language arts, or
 Interim Certificate (Grades 7-12) endorsed in language arts

HIGH SCHOOL GRADES

Middle School Certificate endorsed in language arts, or English language arts, or
 Secondary Certificate (Grades 6-12 or 7-12) endorsed in language arts, or
 English language arts, or
 Special Alternative Certificate (Grades 4-8 or 6-12) endorsed in English language
 arts, or
 Interim Certificate (Grades 4-8) endorsed in language arts, or English language
 arts, or
 Interim Certificate (Grades 6-12) endorsed in English language arts, or
 Interim Certificate (Grades 7-12) endorsed in language arts

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in English
 language arts

RUSSIAN

- 160420** **Russian Exploratory**
 Listening, speaking, reading, and writing skills involving familiar
 topics; understanding and responding to simple expressions;
 writing using learned vocabulary; introduction to Russian-speaking
 cultures
- 160421** **Russian 1**
 Listening and speaking skills including understanding and
 responding to simple directions, expressions of courtesy, and
 questions related to daily routines; reading and writing skills
 including words and phrases used in basic situational contexts;
 beginning understanding of Russian-speaking cultures

160422

Russian 2

Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of Russian-speaking cultures

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in Russian (Grades P-12), or foreign languages (082, Grades P-12), or
Interim Certificate (Grades P-12) endorsed in Russian

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in Russian, or
Middle School Certificate endorsed in Russian, or
Elementary Certificate (Grades 1-9) endorsed in Russian, or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in Russian, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in Russian

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in Russian

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in Russian, or foreign languages (082), or
Interim Certificate (Grades 6-12 or 7-12) endorsed in Russian

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in Russian

SCIENCE

This section lists Middle/Junior High Science, Earth and Space Science, Life Science, and Physical Science (physical science, chemistry, and physics) courses.

MIDDLE/JUNIOR HIGH SCIENCE

260107

Life Science (Grade 7)

Scientific process and application skills; characteristics of living things; cells; body systems (7); classification; photosynthesis; cellular respiration; change over time; ecology; genetics

260108

Physical Science (Grade 8)

Scientific process and application skills; atomic structure; matter; bonding; solutions; Newton's laws; simple machines; energy; waves

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or
Middle School Certificate endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general science, or biology, or chemistry, or physics, or
Special Alternative Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or
Special Alternative Certificate (Grades 4-8) endorsed in general science, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or
Interim Certificate (Grades 4-8) endorsed in generalist

MIDDLE SCHOOL GRADES OR JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES

Secondary Certificate endorsed in general science, or biology, or chemistry, or physics, or physical science, or earth and space science, or geology, or biological science and chemistry (0D6), or environmental education, or
Special Alternative Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or biology, or chemistry, or physics, or earth and space science

EARTH AND SPACE SCIENCE

NOTE: These Earth and Space Science courses DO NOT fulfill the “a physical science” graduation requirement.

- 400616 Earth and Space Science**
Scientific process and application skills; energy in the Earth system; weather; seasons; theories for origin and age of the universe; stars, pulsars, quasars, black holes, and galaxies; Earth and space scientists; space exploration. Does not fulfill the “a physical science” graduation requirement.
- 400614 Geology**
Scientific process and application skills; Earth’s layers; geologic and hydrologic principles; topography; earth materials; geological processes; mass movements; natural subsurface openings; river systems; geological time scale. Does not fulfill the “a physical science” graduation requirement.
- 400629 Other Earth and Space Science Elective**
Courses developed locally and submitted to SDE for approval; Elective courses not currently in Alabama Course of Study: Science, 2005. Does not fulfill the “a physical science” graduation requirement.

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in general science, or chemistry, or physics, or earth and space science, or biology, or
Middle School Certificate endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or
Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general science, or chemistry, or physics, or biology, or
Special Alternative Certificate (Grades 6-12) endorsed in general science, or physics, or chemistry, or biology, or
Special Alternative Certificate (Grades 4-8) endorsed in general science, or

Interim Certificate (Grades 6-12 or 4-8) endorsed in general science, or chemistry, or physics, or earth and space science, or biology, or
Interim Certificate (Grades 4-8) endorsed in generalist

MIDDLE SCHOOL GRADES OR JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES

Secondary Certificate endorsed in biology, or environmental education, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in biology

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general science, or chemistry, or physics, or physical science, or geology, or earth and space science, or biology and chemistry (OD6), or

Special Alternative Certificate (Grades 6-12) endorsed in general science, or chemistry, or physics, or

Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or chemistry, or physics, or earth and space science

GRADE NINE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or biology, or chemistry, or physics

GRADES TEN THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or chemistry, or physics

LIFE SCIENCE

NOTE: Biology courses 260131, 260141, and 260143 are all developed from the Biology Core. These three courses are the only science courses that fulfill the “biology” graduation requirement.

260131 **Biology, General**
Covers Biology Core content standards; scientific process and application skills; cell processes; cell theory; photosynthesis and cellular respiration; genetics; classification; plants; animals; ecology; biogeochemical cycles. Fulfills the biology graduation requirement. May not be divided into Biology 1 and 2 or Biology A and B.

260141 **Biology**
College prep; covers Biology Core content standards with increased conceptual rigor; scientific process and application skills; cell processes; cell theory; photosynthesis and cellular respiration; genetics; classification; plants; animals; ecology; biogeochemical cycles. Fulfills the biology graduation requirement. May not be divided into Biology 1 and 2 or Biology A and B.

260143 **Biology, Advanced**
College prep; advanced-level course; covers locally-developed standards in addition to the Biology Core content standards: scientific process and application skills; cell processes; cell theory; photosynthesis and cellular respiration; genetics; classification; plants; animals; ecology; biogeochemical cycles. Fulfills the biology graduation requirement. May not be divided into Biology 1 and 2 or Biology A and B.

- 260142 Biology, Advanced Placement**
College level; advanced-level course; covers College Board objectives: scientific process and application skills; molecules; cells; heredity; evolution; organisms; populations.
- 260618 Aquascience**
Scientific process and application skills; freshwater, brackish water, saltwater ecosystems; fluid dynamics; biogeochemical cycles; properties of water; aquatic pollution; selective breeding; adaptations of marine organisms; fish production; harvesting techniques; disease.
- 260311 Botany**
Scientific process and application skills; plant phyla; plant reproduction and genetics; plant adaptations; plant structure, function, and organization; photosynthesis and cellular respiration; plant ecology; plant diseases.
- 260614 Environmental Science**
Scientific process and application skills; natural and human impacts; carrying capacity; renewable and nonrenewable energy resources; properties and importance of water; land-use practices; composition and erosion of soil. Does not fulfill the “a physical science” graduation requirement.
- 260615 Environmental Science, Advanced Placement**
College level; advanced-level course; scientific process and application skills; earth systems and resources; the living world; population; land and water; energy resources and consumption; pollution; global change. Does not fulfill the “a physical science” graduation requirement.
- 260616 Forensic Science**
Scientific process and application skills; crime scene investigation personnel; collection and preservation of evidence; firearms; trajectories; DNA testing; decomposition process; detection of drugs and poisons; blood splatter patterns; forged documents. Does not fulfill the “a physical science” graduation requirement.
- 260161 Genetics**
Scientific process and application skills; genetic principles; molecular and cellular foundations; heredity; mutation; genetic techniques; bioethics; Human Genome Project.
- 260751 Human Anatomy and Physiology**
Scientific process and application skills; anatomical terminology; structure and function of cells, tissues, and body systems; biochemistry; system regulation and integration.
- 260621 Marine Science**
Scientific process and application skills; marine water chemistry; anatomy and physiology of saltwater organisms; classification; biodiversity; marine habitats and ecosystems; interdependence of marine organisms; marine taxonomy.

- 260828 **Research and Design in Biology****
 Scientific process and application skills; independent study; safety issues and research protocols; controlling/manipulating variables; statistical analysis and display of data; design and completion of inquiry project; scientific paper; competition in fairs and paper symposia; computer application; laboratory-based; technology.
- 260711 **Zoology****
 Scientific process and application skills; anatomical terminology; animal taxa; body plans, symmetry, and behavior; comparative anatomy; animal reproduction and genetics; adaptations; field study; bioethics.
- 260829 **Other Life Science Elective****
 Courses developed locally and submitted to SDE for approval; elective courses not currently in Alabama Course of Study: Science, 2005. Does not fulfill the “a physical science” graduation requirement.

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or earth and space science, or physics, or
- Middle School Certificate endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general science, or biology, or chemistry, or physics, or
- Special Alternative Certificate (Grades 6-12) endorsed in general science, or biology, or
- Special Alternative Certificate (Grades 4-8) endorsed in general science, or
- Interim Certificate (Grades 6-12 or 4-8) endorsed in general science, or biology, or chemistry, or earth and space science, or physics, or
- Interim Certificate (Grades 4-8) endorsed in generalist

MIDDLE SCHOOL GRADES OR JUNIOR HIGH GRADES

- Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES

- Secondary Certificate endorsed in chemistry, or physics, or physical science, or earth and space science, or geology, or environmental education, or
- Special Alternative Certificate (Grades 6-12) endorsed in chemistry, or physics, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in chemistry, or physics

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in general science, or biology, or biology and chemistry (OD6), or
- Special Alternative Certificate (Grades 6-12) endorsed in general science, or biology, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or biology

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or biology

PHYSICAL SCIENCE

This listing includes Physical Science, Chemistry, and Physics courses. The only courses that satisfy the “a physical science” graduation requirement are Physical Science course 400121, Chemistry courses 400511, 400521, and 400523, and Physics courses 400820, 400821, and 400824.

Physical Science

NOTE: Physical Science 400121 fulfills the “a physical science” graduation requirement.

- 400121 Physical Science**
Scientific process and application skills; periodic table; solutions; bonding; chemical formulas; physical and chemical change; gravitational, electromagnetic, and nuclear forces; motion; energy; energy transformation; electricity and magnetism; nuclear science; metric units. Fulfills the “a physical science” graduation requirement.
- 400700 Other Physical Science Elective**
Courses developed locally and submitted to SDE for approval; elective courses not currently in Alabama Course of Study: Science, 2005. Does not fulfill the “a physical science” graduation requirement.

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in general science, or chemistry, or physics, or earth and space science, or biology, or
- Middle School Certificate endorsed in general science, or biology, or chemistry, or physics, or earth and space science, or generalist, or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general science, or chemistry, or physics, or biology, or
- Special Alternative Certificate (Grades 6-12) endorsed in general science, or physics, or chemistry, or biology, or
- Special Alternative Certificate (Grades 4-8) endorsed in general science, or
- Interim Certificate (Grades 6-12 or 4-8) endorsed in general science, or chemistry, or physics, or earth and space science, or biology, or
- Interim Certificate (Grades 4-8) endorsed in generalist

MIDDLE SCHOOL GRADES OR JUNIOR HIGH GRADES

- Elementary Certificate (Grades 1-9)

JUNIOR HIGH GRADES

- Secondary Certificate endorsed in biology, or environmental education, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in biology

JUNIOR HIGH OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in general science, or chemistry, or physics, or physical science, or geology, or earth and space science, or biology and chemistry (OD6), or
- Special Alternative Certificate (Grades 6-12) endorsed in general science, or chemistry, or physics, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or chemistry, or physics, or earth and space science

GRADE NINE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or biology, or chemistry, or physics

GRADES TEN THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or chemistry, or physics

Chemistry

NOTE: Chemistry courses 400511, 400521, and 400523 are all developed from the Chemistry Core. Any one of these three courses fulfills the “a physical science” graduation requirement.

- 400511 Chemistry, General**
Covers Chemistry Core content standards; scientific process and application skills; matter classifications; carbon chains; periodic table; solutions; kinetic theory; stoichiometry; ideal gases; physical and chemical changes; chemical and nuclear reactions. Fulfills the “a physical science” graduation requirement.
- 400521 Chemistry**
College prep; covers Chemistry Core content standards with increased mathematical and conceptual rigor: scientific process and application skills; matter classifications; carbon chains; periodic table; solutions; kinetic theory; stoichiometry; ideal gases; physical and chemical changes; chemical and nuclear reactions. Fulfills the “a physical science” graduation requirement.
- 400523 Chemistry, Advanced**
College prep; advanced-level course; covers locally-developed standards in addition to the Chemistry Core content standards: scientific process and application skills; matter classification; carbon chains; periodic table; solutions; kinetic theory; stoichiometry; ideal gases; physical and chemical changes; chemical and nuclear reactions. Fulfills the “a physical science” graduation requirement.
- 400522 Chemistry, Advanced Placement**
College level; advanced-level course; atomic theory and structure; chemical bonding; nuclear chemistry; gases; liquids and solids; solutions; reaction types; stoichiometry; equilibrium; kinetics; thermodynamics

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate (Grades 7-12) endorsed in general science, or chemistry, or physical science, or biology and chemistry (0D6), or
Secondary Certificate (Grades 6-12) endorsed in general science, or chemistry, or
Special Alternative Certificate (Grades 6-12) endorsed in general science, or chemistry, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or chemistry

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or chemistry

Physics

NOTE: Physics courses 400820, 400821, and 400824 are all developed from the Physics Core. Any one of these three courses fulfills the “a physical science” graduation requirement.

- 400820 Physics, General**
Covers Physics Core content standards; scientific process and application skills; linear, circular, and projectile motion; momentum; planetary motion; quantitative relationships; thermodynamics; wave behavior; light; electrical, magnetic, and gravitational forces; electricity. Fulfills the “a physical science” graduation requirement.
- 400821 Physics**
College prep; covers Physics Core content standards with increased mathematical and conceptual rigor: scientific process and application skills; linear, circular, and projectile motion; momentum; planetary motion; quantitative relationships; thermodynamics; wave behavior; light; electrical, magnetic, and gravitational forces; electricity. Fulfills the “a physical science” graduation requirement.
- 400824 Physics, Advanced**
College prep; advanced-level course; covers locally-developed content standards in addition to the Physics Core content standards; scientific process and application skills; linear, circular, and projectile motion; momentum; planetary motion; quantitative relationships; thermodynamics; wave behavior; light; electrical, magnetic, and gravitational forces; electricity. Fulfills the “a physical science” graduation requirement.
- 400822 Physics B, Advanced Placement**
College level; advanced-level course; scientific process and application skills; non-calculus based; mechanics; fluid mechanics and thermal physics; electricity and magnetism; waves and optics; atomic and nuclear physics.
- 400823 Physics C, Advanced Placement**
College level; advanced-level course; scientific process and application skills; calculus based; mechanics; electricity and magnetism.
- 400828 Research and Design in Physics**
Scientific process and application skills; independent study; safety issues and research protocols; controlling/manipulating variables; statistical analysis and display of data; design and completion of inquiry project; scientific paper; competition in fairs and paper symposia; computer application; laboratory-based technology.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general science, or physics, or physical science, or
Special Alternative Certificate (Grades 6-12) endorsed in general science, or physics, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or physics

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general science, or physics

SIGN LANGUAGE

- 160941 American Sign Language 1**
Syntax and grammar study including basic physical and linguistic features; understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; identifying main ideas from signed narratives; creating short presentations on familiar topics; beginning understanding of deaf cultures
- 160942 American Sign Language 2**
Syntax and grammar study including understanding and responding to a variety of directions, commands, and questions related to personal preferences; interpreting culturally authentic narratives about new and familiar topics; creating short presentations on familiar topics; further understanding of deaf cultures
- 160943 American Sign Language 3**
Syntax and grammar study including understanding and responding through paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating presentations on a variety of topics; increased understanding of deaf cultures
- 160944 American Sign Language 4**
Syntax and grammar study including understanding and responding to factual and interpretive questions in complex social situations involving proposing and supporting solutions to issues and problems; interpreting complex prose and poetry selections; creating original prose and poetry; extensive understanding of deaf cultures

**IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS**

ALL GRADES

Elementary-Secondary Certificate endorsed in American Sign Language (0N8),
or
Any Professional Educator Certificate AND at least a valid Provisional Certificate issued by the American Sign Language Teachers Association.

NOTE: Requirements for proper certification are likely to change over time but not before the 2009-2010 academic year.

SOCIAL STUDIES

- 450701 Geography (Grade 7, Semester Course)**
Cultural geography emphasizing Eastern Hemisphere; places and regions; physical systems; human systems; relationships between people and their environment
- 450702 Citizenship (Grade 7, Semester Course)**
U. S. founding documents; representative democracy; law; personal economics; U. S. political system; civic participation and responsibility

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or economics, or political science, or psychology, or sociology, or
- Middle School Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or generalist, or
- Elementary Certificate (Grades 1-9), or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general social science (022), or history, or geography, or
- Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or
- Special Alternative Certificate (Grades 4-8) endorsed in general social science (022), or
- Interim Certificate (Grades 4-8) endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or generalist, or
- Interim Certificate (Grades 6-12) endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or psychology

JUNIOR HIGH GRADES

- Elementary Certificate (Grades 1-9), or
- Secondary Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or psychology, or political science and sociology (049), or anthropology, or
- Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or political science, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or economics, or geography, or history, or political science, or psychology, or sociology

SOCIOLOGY

- 380206 Comparative Religion**
History and comparison of major world religions
- 450211 Anthropology**
Cultural origins; cultural behaviors; race, religion, sex roles, institutions, and economic status; ethnology and linguistics

451121 Sociology (High School Elective Course)
Culture and society; social inequalities; social institutions; social change

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVEL

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in general social science (022), or economics, or geography, or history, or political science, or psychology, or sociology, or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in general social science (022), or

Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or

Interim Certificate (Grades 6-12) endorsed in general social science (022), or economics, or geography, or history, or political science, or psychology, or sociology

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in general social science (022), or sociology, or political science and sociology (049), or

Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or

Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or sociology

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in general social science (022)

SPANISH

160932 Spanish Exploratory
Listening, speaking, reading, and writing skills involving familiar topics; understanding and responding to simple expressions; writing using learned vocabulary; introduction to Spanish-speaking cultures

160933 Spanish 1
Listening and speaking skills including understanding and responding to simple directions, expressions of courtesy, and questions related to daily routines; reading and writing skills including words and phrases used in basic situational contexts; beginning understanding of Spanish-speaking cultures

160934 Spanish 2
Listening and speaking skills including understanding and responding to a variety of directions, commands, and questions related to personal preferences; reading with comprehension main ideas from simple texts; writing with comprehension short presentations on familiar topics; further understanding of Spanish-speaking cultures

- 160935 Spanish 3**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving paraphrasing, explaining, and giving cause; interpreting main ideas and supporting details from authentic texts; creating oral and written presentations on a variety of topics; increased understanding of Spanish-speaking cultures
- 160936 Spanish 4**
Listening and speaking skills including understanding and responding to factual and interpretive questions involving proposing and supporting solutions to issues and problems; interpreting authentic prose and poetry selections; creating written compositions through the use of poetry or prose; extensive understanding of Spanish-speaking cultures
- 160938 Spanish, Advanced Placement: Language**
Advanced-level college performance in listening, speaking, reading, and writing for a variety of situations with emphasis on vocabulary, structure, fluency, and accuracy; extensive writing of compositions
- 160939 Spanish, Advanced Placement: Literature**
Advanced-level college performance in understanding, analyzing, and interpreting a variety of moderately difficult selections from Spanish literature

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Elementary-Secondary Certificate endorsed in Spanish (Grades P-12), or foreign languages (082, Grades P-12), or
Special Alternative Certificate (Grades P-12) endorsed in Spanish, or
Interim Certificate (Grades P-12) endorsed in Spanish

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in Spanish, or
Middle School Certificate endorsed in Spanish, or
Elementary Certificate (Grades 1-9) endorsed in Spanish, or
Alternative Baccalaureate-Level Certificate (Grades 6-8 or K-8) endorsed in Spanish, or
Special Alternative Certificate (Grades 6-12) endorsed in Spanish, or
Interim Certificate (Grades 6-12 or 4-8) endorsed in Spanish

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9) endorsed in Spanish

JUNIOR HIGH OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in Spanish (023), or foreign languages (082), or
Special Alternative Certificate (Grades 6-12) endorsed in Spanish, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in Spanish

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in Spanish

SPEECH

- 231010 Oral Communication**
Interpersonal communications; group process; media use; informal speeches; interactive reading

- 231011 Public Speaking**
Extemporaneous, demonstrative, persuasive, informative oral communication; videotape; speech writing and delivery
- 231021 Speech 1**
Oral reading; children's literature; delivering, selecting, organizing speeches; persuasion; poise and verbal skills
- 231022 Speech 2**
Tournaments; debate techniques; argumentation; problem solving
- 231023 Speech 3**
Speech practices and techniques
- 231031 Debate**
Individual work in debate

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Secondary Certificate (Grades 6-12) endorsed in English, or English language arts, or speech communication/theatre, or
 Middle School Certificate endorsed in English, or English language arts, or language arts, or speech communication/theatre, or generalist, or
 Elementary Certificate (Grades 1-9), or
 Elementary-Secondary Certificate endorsed in speech communication/theatre (Grades P-12), or theatre (Grades P-12), or
 Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in English language arts, or theatre, or English, or
 Special Alternative Certificate (Grades 6-12 or 4-8) endorsed in English language arts, or
 Special Alternative Certificate (Grades P-12) endorsed in theatre, or
 Interim Certificate (Grades 4-8) endorsed in English, or English language arts, or language arts, or speech communication/theatre, or generalist, or
 Interim Certificate (Grades 6-12) endorsed in English, or English language arts, or speech communication/theatre, or
 Interim Certificate (Grades P-12) endorsed in theatre, or speech communication/theatre

JUNIOR HIGH GRADES

Elementary Certificate (Grades 1-9), or
 Secondary Certificate (Grades 6-12 or 7-12) endorsed in English, or
 Interim Certificate (Grades 6-12 or 7-12) endorsed in English

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in language arts, or English language arts, or speech, or dramatic arts, or speech communication/theatre, or
 Elementary-Secondary Certificate endorsed in speech communication/theatre, or theatre, or
 Special Alternative Certificate (Grades 6-12) endorsed in language arts, or English language arts, or
 Special Alternative Certificate (Grades P-12) endorsed in theatre, or
 Interim Certificate (Grades 6-12 or 7-12) endorsed in English language arts, or language arts, or speech communication/theatre, or
 Interim Certificate (Grades P-12) endorsed in theatre

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in English language arts, or theatre

TECHNOLOGY EDUCATION AND INFORMATION SCIENCE

110100 Computer Applications

Basic concepts and operations; technology problem-solving and decision-making tools; technology research tools; social, ethical and human issues; technology communications tools; technology productivity tools

110201 Computer Programming

Flow charts; algorithms; computer languages; machine operation; documentation

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any Certificate

***CAREER/TECHNICAL
EDUCATION COURSES***

CAREER/TECHNICAL EDUCATION CURRICULUM CORE

702000

Curriculum Core

The Career/Technical Education Curriculum Core is a career awareness course that introduces students to the basic principles for launching individuals into career paths. Mastery of these content standards is required for a student to be considered a program completer. This course may be integrated into the Career/Technical Education instructional program or taught as a separate one-half credit course.

IN FIELD REQUIREMENTS
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any certificate endorsed in a Career/Technical Education teaching field

CAREER TECHNOLOGIES

210110

Career Discoveries (nine week course)

210111

Career Discoveries (one semester course)

210112

Career Discoveries (two semester course)

Career Discoveries introduces students in Grades 6 – 8 to the three technological content areas of Communications Technologies, Physical Technologies, and Bio-Related Technologies. This course provides students with a broad base of career explorations and technological studies for a minimum of one semester or a maximum of two semesters.

210113

Career Explorations (one credit)

Career Explorations provides students with a more in-depth study of student-selected units within any of the three content areas of Communications Technologies, Physical Technologies, and Bio-Related Technologies. This one credit course for students in Grades 9 – 10, is designed to allow students to concentrate on multiple processes, concepts, and applications of the technologies being studied.

210114

Career Explorations (one-half credit)

This one-half credit course for students in Grades 9 – 10, is designed to allow students to concentrate on multiple processes, concepts, and applications of the technologies being studied.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

Middle School Certificate or Elementary Certificate (Grades 1-9) endorsed in career technologies/technology education (011), or agriscience education, or

Elementary-Secondary Certificate endorsed in career technologies/technology education (011, Grades P-12), or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in career technologies (011), or agriscience education, or

Secondary Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or agriscience education, or

Special Alternative Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or agriscience education, or

Interim Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or agriscience education

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate or Elementary-Secondary Certificate endorsed in career technologies/technology education (011), or agriscience education, or Special Alternative Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or agriscience education, or Interim Certificate (Grades 6-12 or 7-12) endorsed in career technologies/technology education (011), or agriscience education

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in career technologies (011), or agriscience education

COOPERATIVE EDUCATION PROGRAM

701101 Coordinated Studies
Coordinated Studies is a required component of the Career/Technical Cooperative Education Program. This one-credit course provides students with the opportunity to evaluate and develop a career plan and prepare/update a career/employment portfolio. The Career/Technical Cooperative Education Program requires students to successfully complete 140-clock hours of instruction to earn one unit of credit.

701102 Work-Based Experience/Coordinated Studies Seminar
Work-based experience is a minimum of 270 continuous and successful hours of paid employment (average of 15 hours per week) in the student's occupational objective performed in a licensed establishment under the supervision of a workplace mentor and the cooperative education teacher/coordinator. Summer hours are not included in the minimum requirement. Students enrolled in the Cooperative Education Program are required to participate in the Coordinated Studies Seminar (one full class period per week) to be able to continue in the career/technical cooperative education work-based experience. **The teacher of this course must have earned credit in "Functions of Coordination" or "Principals of Coordination."**

IN-FIELD REQUIREMENTS:

CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES NINE THROUGH TWELVE

Any certificate endorsed in technical education teacher-coordinator, or marketing education teacher-coordinator, or healthcare science and technology/health science teacher-coordinator, or business education teacher-coordinator, or family and consumer sciences education teacher-coordinator, or agriscience education teacher-coordinator, or

Secondary Certificate endorsed in agriscience education, or family and consumer sciences education, or technical education, or business education, or marketing education, or business/marketing education (0L9), or

Interim Certificate (Grades 6-12 or 7-12) endorsed in agriscience education, or family and consumer sciences education, or technical education, or business education, or marketing education, or business/marketing education (0L9), or

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in agriscience education, or family and consumer sciences education, or business/marketing education (0L9), or technical education

AGRISCIENCE EDUCATION

- 010501 Pre-Agriscience (23 clock hour course)**
010502 Pre-Agriscience (35 clock hour course)
010503 Pre-Agriscience (70 clock hour course)
010504 Pre-Agriscience (140 clock hour course)

An exploratory course that provides Grade 7 students with an overview of the agriscience/agriculture industry. This course may be taught as a 23, 35, 70, or 140 clock-hour course. Specific content standards to be included in each of the courses are indicated in the Course of Study chart.

- 010505 Agriscience Exploration (23 clock hour course)**
010506 Agriscience Exploration (35 clock hour course)
010507 Agriscience Exploration (70 clock hour course)
010508 Agriscience Exploration (140 clock hour course)

An exploratory course that provides Grade 8 students the opportunity to gain knowledge and acquire skills in the areas of animal science, plant science, ecology, conservation, and agriscience careers. This course may be taught as a 23, 35, 70, or 140 clock-hour course. Specific content standards to be included in each of the courses are indicated in the Course of Study chart.

- 010510 Agriscience**

A one-credit course that provides students with a general overview of the five major career areas in Agriscience Education: Plant Biosystems, Animal Biosystems, AgriEngineering, AgriCommerce and Communication, and Environmental and Natural Resources.

AGRICOMMERCE AND COMMUNICATIONS

- 010521 AgriBusiness Management and Development**

A one-credit course that provides students with a basis for making effective decisions, setting goals, assessing and solving problems, valuing financial progress and success, evaluating the management of resources, and gaining skills useful in everyday life.

- 010522 AgriComputer Systems**

A one-credit course that provides students with opportunities to acquire knowledge and skills related to agribusiness marketing and management opportunities that allow them to reinforce, apply, and transfer knowledge and skills and technology competencies to a variety of settings.

- 010523 AgriMarketing**

A one-credit course that provides students with the opportunity to develop an understanding of the principles and practices of marketing as they relate to agriculture-related products and services.

AGRIENGINEERING

- 010531 AgriConstruction**

A one-credit course designed to facilitate student understanding of construction as it relates to agriculture. Students become familiar with types of agriculture structures and their uses.

- 010532 AgriConstruction Finishing**
A one-credit course designed to help students become familiar with types of agriculture finishing and their applications. In addition, students are provided opportunities to develop skills in the areas of planning, safety, and finishing for various agriculture structures.
- 010533 AgriMetal Fabrication**
A one-credit course that provides students with opportunities to examine safety and technical information in agricultural metal fabrication and additional opportunities to participate in hands-on activities in the laboratory.
- 010534 AgriPower Mechanics**
A one-credit course designed to prepare students for entry-level employment or advanced training in agricultural mechanics including, but not limited to, small engines, power units, machinery equipment, and systems related to each.
- 010535 AgriConstruction: Innovative Courses**
Designing, planning, managing, building, and maintaining agricultural structures.

ANIMAL BIOSYSTEMS

- 010541 Animal Biotechnology**
A one-credit course that provides students with an opportunity to develop an understanding of the principles and practices of animal genetics and biotechnology as they relate to agriculture-related products and services.
- 010542 Animal Science**
A one-credit course that provides students with the opportunity to acquire necessary skills for the care and management of animals. Identification, safety, nutrition, genetics, selection, and careers are major instructional areas.
- 010543 Aquaculture Science**
A one-credit course that helps students develop an appreciation for the importance of the aquaculture industry. This course relates science and math skills to the world of aquaculture.
- 010544 Equine Science**
A one-credit course that enables students to become knowledgeable in the areas of caring for and managing horses. Equine health, nutrition, safety, reproduction, and selection are major instructional areas.
- 010545 Poultry Science**
A one-credit course that provides students with instruction and opportunities to participate in hands-on activities in areas of selection of poultry, anatomy and physiology of poultry, nutrition, housing and equipment, management practices, diseases and disorders, and marketing and grading poultry.
- 010546 Veterinary Science**
A one-credit course designed to prepare students for entry-level employment or for advanced training in the veterinary assisting industry. Students also explore health, safety, and issues related to labor, community, and the environment.

PLANT BIOSYSTEMS

- 010551 Floral Design and Interiorscaping**
A one-credit course designed to introduce students to career possibilities in this field and to provide basic instruction in techniques of floral/interior design and merchandising.
- 010552 Horticulture**
A one-credit course in which students receive instruction about this multi-faceted industry and participate in hands-on activities in the areas of basic plant science, plant propagation, soil and media mixture, plant nutrition, greenhouse design and structures, nursery crops, hydroponics, and vegetable gardening.
- 010553 Landscape Design and Management**
A one-credit course that allows students to become more knowledgeable about and appreciative of landscape design and management.
- 010554 Plant Biotechnology**
A one-credit course that provides students with an opportunity to develop an understanding of the principles and practices of plant genetics and biotechnology regarding agricultural-related products and services.
- 010555 Sports and Recreation Turf**
A one-credit course that allows students to participate in hands-on activities in the areas of turfgrass identification, classification, and selection; growth and the environment; establishment; renovation; management and fertilization; types of sports fields management; golf course management; pest management; pesticide application; drainage and irrigation systems; tool and equipment identification; maintenance of tools and machinery; and business management skills.
- 010556 Horticulture: Innovative Courses**
Producing, processing, and marketing plants used primarily for ornamental or aesthetic purposes and fruits and vegetables traditionally related to horticulture.

ENVIRONMENTAL AND NATURAL RESOURCES

- 010561 Environmental Science and Management**
A one-credit course that provides students with an opportunity to develop an understanding of the principles and practices of environmental science and natural resource management.
- 010562 Fish and Wildlife Management**
A one-credit course that provides students with the opportunity to become more knowledgeable about some of today's most valued, yet vulnerable, natural resources.
- 010563 Forestry**
A one-credit course designed to enable students to become knowledgeable of forestry and wood technology.
- 010564 Forestry: Innovative Courses**
Students use the best management practices available to conserve or increase the economic value of a forest and/or forest products.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in agriscience education, or technical education, or
- Special Alternative Certificate (Grades 6-12) endorsed in agriscience education, or technical education, or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in agriscience education, or technical education, or
- Interim Certificate (Grades 6-12) endorsed in agriscience education, or technical education

JUNIOR HIGH OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in agriscience education, or technical education, or
- Career/Technical Certificate (022, 045, 044, Grades 7-12), or Career/Technical Certificate (CT1, CT2, CT3, CT4, CT5, Grades 6-12) endorsed in technical education, or
- Special Alternative Certificate (Grades 6-12) endorsed in agriscience education, or technical education, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in agriscience education, or technical education

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in agriscience education, or technical education

BUSINESS/MARKETING EDUCATION

- 520501 Accounting Principles**
A one-credit course designed to help students understand the basic principles of the accounting cycle.
- 520502 Administrative Principles (one credit)**
A one-credit course that provides students with a preview of administrative responsibility. It allows students to participate in administrative problem-solving activities for the workplace and to develop conflict management and interpersonal skills.
- 520503 Administrative Principles (one-half credit)**
A one-half credit course that may be developed by utilizing the Administrative Principles content standards marked with an asterisk. The course provides students with a preview of administrative responsibility.
- 520504 Advanced Accounting**
A one-credit course designed to provide students with an increased emphasis on accounting procedures and techniques for solving business problems and making financial decisions. This course provides students with entry-level skills for the accounting profession and/or a foundation for postsecondary study.
- 520505 Business and Marketing Essentials**
A one-credit introductory course that addresses the principles and concepts that serves as the foundation for future study in the Business/Marketing Education program.

- 520506 Business Technology Essentials**
A one-credit course designed to help students master basic skills in the areas of word processing, database management, spreadsheet, presentation, Internet, and E-mail.
- 520531 Computer Essentials (23 clock hour course)**
520532 Computer Essentials (35 clock hour course)
520533 Computer Essentials (70 clock hour course)
A course designed for Grade 6, 7, or 8 to help students master basic skills in the areas of database management, spreadsheet, presentation, Internet, and E-mail. Students are also offered opportunities to identify ethical issues pertaining to information systems and to gather information about careers in technology. Communication and critical thinking are reinforced through the use of software applications. Simulations and projects promoting teamwork and leadership skills offer further opportunities.
- 520507 Entrepreneurship and Management (one credit)**
A one-credit specialized business course designed to provide students with the skills needed to effectively organize, develop, create, and manage a business.
- 520508 Entrepreneurship and Management (one-half credit)**
A one-half credit course that may be developed by utilizing the Entrepreneurship and Management content standards marked with an asterisk.
- 520509 Integrated Computer Technology**
A one-credit course that provides students with project-based applications of concepts learned in Business Technology Essentials. The prerequisite for this course is Business Technology Essentials.
- 520510 Interactive Multimedia Design**
A one-credit course designed to provide students with skills involving presentations, desktop publishing, web publishing, and digital graphics. Students use various hardware peripherals and the Internet for integrating skills to create a variety of publications.
- 520511 Law in Society (one credit)**
A one-credit course designed to acquaint students with the basic legal principles common to business and personal activities.
- 520512 Law in Society (one-half credit)**
A one-half credit course that may be developed by utilizing the Law and Society content standards marked with an asterisk.
- 520513 Marketing Dynamics**
A one-credit course that provides students with an advanced study of Marketing.
- 520514 Network Management and Support**
A one-credit advanced business course designed for students with prior knowledge in the areas of computer hardware, operating systems, and computer software applications.
- 520515 Personal and Business Finance**
A one-credit course designed to provide students with opportunities to develop skills for solving real-world problems.

- 520516 Personal Finance**
A one-half credit course that may be developed by utilizing the Personal and Business Finance content standards marked with an asterisk.
- 520521 Marketing Innovations (one credit)**
520522 Marketing Innovations (one-half credit)
A one or one-half credit course designed for in-depth, specialized studies to meet the needs of a local workforce.
- 520523 Management Innovations (one credit)**
520524 Management Innovations (one-half credit)
A one or one-half credit course designed for in-depth, specialized studies to meet the needs of a local workforce.
- 520525 Financial Innovations (one credit)**
520526 Financial Innovations (one-half credit)
A one or one-half credit course designed for in-depth, specialized studies to meet the needs of a local workforce.
- 520527 Computer Technology/Information Systems Innovations (one credit)**
520528 Computer Technology/Information Systems Innovations (one-half credit)
A one or one-half credit course designed for in-depth, specialized studies to meet the needs of a local workforce.
- 520535 Digital Photography**
A one-credit course designed to provide students with instruction and experiences in the medium of digital photography. Topics of study include advertising design, illustrations, portraiture, landscape photography, and product photography. The prerequisite for this course is Interactive Multimedia Design.
- 520536 Graphic Design**
A one-credit course designed to provide students with instruction and experiences in digital design. Topics to study include logo design, advertising design, illustrations, computer drawings, software exploration, package design, typography, and digital photography. The prerequisite for this course is Interactive Multimedia Design.
- 520539 Web Design**
A one-credit course designed to provide students with instruction and experiences in the creation of designs, web pages, web sites, and animations to be used on the Internet. Topics of study include Internet development, computer production, design elements and principles, technology, and procedures utilized in the field of web design. The prerequisite for this course is Interactive Multimedia Design.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in business education, or marketing education, or business/marketing education (0L9), or
Special Alternative Certificate (Grades 6-12) endorsed in business education, or marketing education, or business/marketing education (0L9), or

Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in business/marketing education (OL9), or
Interim Certificate (Grades 6-12) endorsed in business education, or marketing education, or business/marketing education (OL9)

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in commercial subjects (005), or business education, or business administration, or marketing education, or business/marketing education (OL9), or
Special Alternative Certificate (Grades 6-12) endorsed in business education, or marketing education, or business/marketing education (OL9), or
Interim Certificate (Grades 6-12 or 7-12) endorsed in business education, or marketing education, or business/marketing education (OL9)

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in business/marketing education (OL9)

COURSES CROSSWALKED FOR BUSINESS/MARKETING EDUCATION AND TECHNICAL EDUCATION

- 524602 Desktop Publishing (DTP)**
A one-credit course to provide students with hands-on experiences addressing a variety of the components of information design. Introduction to Visual Arts I or a visual art credit is the prerequisite for this course.
- 524610 Introduction to Information Technology**
A one-credit course that provides students with knowledge and skills regarding computer hardware, PC operating systems, introduction to networking, information technology careers, internet research and safety, basic troubleshooting, and interactive media.
- 524611 Information Technology Fundamentals**
A one-credit course that provides students with knowledge and skills of the functionality of hardware and software components and best practices in maintenance and safety issues. The prerequisite for this course is Introduction to Information Technology.
- 524612 Server Fundamentals**
A one-credit course that provides an intensive introduction to multi-user, multitasking network operating systems. The prerequisite for this course is Introduction to Information Technology.
- 524613 Linux Fundamentals**
A one-credit course that provides students with knowledge and skills regarding the use of the Linux operating system. Emphasis is also placed on graphical user interface (GUI). The prerequisite for this course is Introduction to Information Technology.
- 524614 Customer Service/Help Desk and Troubleshooting**
A one-credit specialized business course designed to provide students with effective communication and troubleshooting/problem-solving skills to effectively handle customers, co-workers, and employers. The prerequisite for this course is Introduction to Information Technology.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in business education, or business administration, or marketing education, or business/marketing education (0L9), or technical education (025), or
Career/Technical Certificate (022, 045, 044, Grades 7-12), or Career/Technical Certificate (CT1, CT2, CT3, CT4, CT5, Grades 6-12) endorsed in technical education, or
Special Alternative Certificate (Grades 6-12) endorsed in business education, or marketing education, or business/marketing education (0L9), or technical education (025), or
Interim Certificate (Grades 6-12 or 7-12) endorsed in business education, or marketing education, or business/marketing education (0L9), or technical education (025)

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in business/marketing education (0L9), or technical education (025)

FAMILY AND CONSUMER SCIENCES EDUCATION Family Life Program

- 200602** **Teen Challenges (nine week course)**
200603 **Teen Challenges (semester course)**
200604 **Teen Challenges (yearlong course)**
A nine-week, semester, or yearlong exploratory course for Grade 6 pre-adolescent students. A school-based laboratory is required for this course.
- 200605** **Teen Living (semester course)**
200606 **Teen Living (yearlong course)**
A semester or yearlong exploratory course for Grades 7-8 adolescent students. A school-based laboratory is required for this course.
- 200607** **Teen Dynamics (semester course)**
200608 **Teen Dynamics (yearlong course)**
A semester or yearlong course designed for students in Grades 8-9. A school-based laboratory is required for this course.
- 200610** **Art Dynamics**
A one-half credit course for students who are interested in acquiring knowledge and skills in art production and design in the areas of culinary arts, fashion design, graphic design, industrial design, and interior design. A school-based laboratory is required for this course.
- 200620** **Fashion Dynamics**
A one-credit course for students who are interested in fashion, accessories, textiles, and fashion design. The course consists of the one-half credit Fashion Decisions course and the one-half credit Fashion Design course. The content standards in both courses must be taught for students to receive one credit. A school-based laboratory is required for this course.
- 200621** **Fashion Decisions**
A one-half credit course that introduces students to the selection and care of clothing and accessories for individuals and families. A school-based laboratory is required for this course.

- 200622 Fashion Design**
A one-half credit course for students interested in learning about past and present apparel and accessory design technology. A school-based laboratory is required for this course.
- 200630 Family Dynamics**
A one-credit comprehensive course which serves as the foundational course in Family and Consumer Sciences Education. The course is designed to assist students in recognizing the roles, responsibilities, and importance of the family. A school-based laboratory is required for this course.
- 200631 Parent and Child Dynamics**
A one-credit course that assists students in the acquisition of knowledge and skills associated with positive parent and child relationships. The course consists of the one-half credit Parenting course and the one-half credit Child Development course. The content standards in both courses must be taught for students to receive one credit. A school-based laboratory is required for this course.
- 200632 Parenting**
A one-half credit course that allows students to focus on practical problems related to parenting roles and responsibilities. A school-based laboratory is required for this course.
- 200633 Child Development**
A one-half credit course that helps students develop skills related to the physical, social, intellectual, and emotional development of children. A school-based laboratory is required for this course.
- 200634 Human Dynamics**
A one-credit course that explores human growth and development throughout the entire life span with special emphasis on the unique needs of children. The course consists of the one-half credit Child Development course and the one-half credit Life Connections course. The content standards in both courses must be taught for students to receive one credit. A school-based laboratory is required for this course.
- 200635 Life Connections**
A one-half credit course focusing on practical problems related to nurturing human development throughout the life span. A school-based laboratory is required for this course.
- 200636 Family Wellness**
A one-half credit course for students interested in health issues that impact individuals, families, and communities. A school-based laboratory is required for this course.
- 200640 Food Dynamics**
A one-credit course that allows students to explore the relationship among food, nutrition, fitness, and wellness while preparing foods creatively. The course consists of the one-half credit Food and Fitness course and the one-half credit Creative Foods course. The content standards in both courses must be taught for students to receive one credit. A school-based laboratory is required for this course.

- 200641 Food and Fitness**
A one-half credit course that enables students to assess the components and lifelong benefits of sound nutrition and fitness practices and to apply these principles to their everyday lives. A school-based laboratory is required for this course.
- 200642 Creative Foods**
A one-half credit course that introduces students to national and international food choices, preparation techniques, and presentation. A school-based laboratory is required for this course.
- 200643 Food Science**
A one-credit course that includes an in-depth study of the science of food through experimental methods and laboratories. A school-based laboratory is required for this course.
- 200650 Housing Dynamics**
A one-credit course for students who are interested in housing and interior design. The course consists of the one-half credit Housing Decisions course and the one-half credit Interior Design course. The content standards in both courses must be taught for students to receive one credit. A school-based laboratory is required for this course.
- 200651 Housing Decisions**
A one-half credit course that introduces students to the selection and planning of living environments to meet the needs and wants of individuals and families across the life span. A school-based laboratory is required for this course.
- 200652 Interior Design**
A one-half credit course that introduces students to the historical aspects and contemporary trends in housing and interior design. A school-based laboratory is required for this course.
- 200660 Money Dynamics**
A one-half credit course that introduces students to the management of personal and family resources to achieve personal goals. A school-based laboratory is required for this course.
- 200678 Family and Consumer Innovations**
A research-based course that reflects current knowledge and skills related to the work of the family and prepares students to meet the challenges of living and working in a diverse society. A school-based laboratory is required for this course.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES SIX THROUGH EIGHT

- Secondary Certificate (Grades 6-12) endorsed in family and consumer sciences education, or
- Special Alternative Certificate (Grades 6-12) endorsed in family and consumer sciences education, or
- Alternative Baccalaureate-Level Certificate (Grades 6-8) endorsed in family and consumer sciences education, or
- Interim Certificate (Grades 6-12) endorsed in family and consumer sciences education

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in family and consumer sciences education, or
Special Alternative Certificate (Grades 6-12) endorsed in family and consumer
sciences education, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in family and consumer
sciences education

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in family and
consumer sciences education

FAMILY AND CONSUMER SCIENCES EDUCATION

Career Connections Program

CAREER ARTS

200710 Fashion Design Careers

A one credit Career Connections course from the Career Arts Major that is designed for students who are interested in acquiring knowledge and skills in the area of art production and fashion design. A fashion design studio is the required school-based laboratory.

200711 Fashion Design

A one credit Career Connections course from the Career Arts Major that provides students with the knowledge and skills for application of artistic expression related to textiles, clothing, and fashion design. The prerequisite for this course is Fashion Design Careers. A fashion design studio is the required school-based laboratory.

200712 Advanced Fashion Design

A one credit Career Connections course from the Career Arts Major that provides students with advanced knowledge and skills used in the Fashion Design field. The prerequisites for this course are Fashion Design Careers and Fashion Design. A fashion design studio is the required school-based laboratory for this career pathway.

200715 Interior Design Careers

A one credit Career Connections course from the Career Arts Major that is designed for students who are interested in acquiring knowledge and skills in the area of art production and interior design. An interior design studio is the required school-based laboratory.

200716 Interior Design

A one credit Career Connections course from the Career Arts Major that provides students with the knowledge and skills for application of artistic expression related to interior design. The prerequisite for this course is Interior Design Careers. An interior design studio is the required school-based laboratory.

- 200717 **Advanced Interior Design****
 A one credit Career Connections course from the Career Arts Major that provides students with advanced knowledge and skills used in the Interior Design field. The prerequisites for this course are Interior Design Careers and Interior Design. An interior design studio is the required school-based laboratory for this career pathway.
- 200718 **Career Arts Innovations****
 A research-based course that reflects current knowledge and skills related to the Interior Design major or the Fashion Design major. An interior design studio or a fashion design studio is the required school-based laboratory.

EARLY CHILDHOOD EDUCATION

- 200720 **Early Childhood Education Careers****
 A one-credit Career Connections course designed for students who are interested in pursuing careers working with children. The required school-based laboratory is an early childhood education facility.
- 200721 **Early Childhood Education****
 A one-credit Career Connections course from the Early Childhood Education Major that helps students learn ways to direct and operate an early childhood education program. The prerequisite for this course is Early Childhood Education Careers. The required school-based laboratory is an early childhood education facility.
- 200722 **Advanced Early Childhood Education****
 A one-credit Career Connections course from the Early Childhood Education Major that provides students with advanced knowledge and skills used in the field of education. The prerequisites for this course are Early Childhood Education Careers and Early Childhood Education. The required school-based laboratory is an early childhood education facility.
- 200728 **Early Childhood Education Innovations****
 A research-based course that reflects current knowledge and skills related to the Early Childhood Education major. The required school-based laboratory is an early childhood education facility.

EDUCATION

- 200730 **Teaching Careers****
 A one-credit Career Connections course designed for students who are interested in pursuing careers in education. The required school-based laboratory is a well-equipped classroom.
- 200731 **Teaching****
 A one-credit Career Connections course from the Education Major that helps students implement the teaching and learning processes. The prerequisite for this course is Teaching Careers. The required school-based laboratory is a well-equipped classroom.

- 200732 **Advanced Teaching****
 A one-credit Career Connections course from the Education Major that provides students with advanced knowledge and skills used in the education field. The prerequisites for this course are Teaching Careers and Teaching. The required school-based laboratory is a well-equipped classroom.
- 200733 **Teaching Internship****
 A one-credit Career Connections course for students who are interested in pursuing careers in the education field. Students who have completed the Teaching Careers, Teaching, and Advanced Teaching courses are eligible to enroll in Teaching Internship. The school-based laboratory for the internship is an actual classroom that provides instruction in the subject-matter area related to the student's interest.
- 200738 **Education Innovations****
 A research-based course that reflects current knowledge and skills related to the Education major. The required school-based laboratory is a well-equipped classroom.

FAMILY AND COMMUNITY SERVICES

- 200740 **Human Services Careers****
 A one-credit Career Connections course designed for students who are interested in acquiring skills for providing services to individuals and families. A classroom equipped with computers and a demonstration table is the school-based laboratory for this course.
- 200741 **Consumer Services****
 A one-credit Career Connections course from the Family and Community Services Major that includes content that helps students learn ways to provide services to consumers. The prerequisite for this course is Human Services Careers. A classroom equipped with computers and a demonstration table is the required school-based laboratory for the Consumer Services pathway.
- 200745 **Older Adult Services****
 A one-credit Career Connections course from the Family and Community Services Major that helps students learn ways to provide services for the older adults. The prerequisite for this course is Human Services Careers. A facility to provide services for older adults is the required school-based laboratory for this major.
- 200746 **Advanced Older Adult Services****
 A one-credit Career Connections course from the Family and Community Services Major that provides an in-depth study of ways to provide services for older adults. The prerequisites for this course are Human Services Careers and Older Adult Services. A facility to provide services for older adults is the required school-based laboratory for this major.

- 200748 Family and Community Services Innovations**
A research-based course that reflects current knowledge and skills related to the Older Adult Services major or the Consumer Services major. A facility to provide services for older adults or a classroom equipped with computers and a demonstration table is the required school-based laboratory.

NUTRITION AND DIETETICS

- 200755 Nutrition and Dietetics Careers**
A one-credit Career Connections course designed for students who are interested in pursuing careers in nutrition and dietetics. The required school-based laboratory for the Nutrition and Dietetics program includes test kitchen units and experimental laboratories.
- 200756 Nutrition and Dietetics**
A one-credit Career Connections course from the Food, Culinary Arts, and Hospitality Major that provides students with advanced knowledge and skills used in nutrition and dietetics. The prerequisite for this course is Nutrition and Dietetics Careers. The required school-based laboratory for the Nutrition and Dietetics program includes test kitchen units and experimental laboratories.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in family and consumer sciences education, or
Special Alternative Certificate (Grades 6-12) endorsed in family and consumer sciences education, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in family and consumer sciences education

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in family and consumer sciences education

FOOD, CULINARY ARTS, AND HOSPITALITY

- 200750 Culinary Arts and Hospitality Careers**
A one-credit Career Connections course designed for students who are interested in pursuing careers in food service and hospitality. The required school-based laboratory is a food service kitchen and a food serving and dining area.
- 200751 Culinary Arts and Hospitality**
A one-credit Career Connections course from the Food, Culinary Arts, and Hospitality Major that provides students with the knowledge and skills for working in the food service and hospitality industries. The prerequisite for this course is Culinary Arts and Hospitality Careers. The required school-based laboratory for the Culinary Arts and Hospitality program is a food service kitchen and a food-serving and dining area.

200752 **Advanced Culinary Arts and Hospitality**
A one-credit Career Connections course from the Food, Culinary Arts, and Hospitality Major that provides students with advanced knowledge and skills used in the culinary arts and hospitality industries. The prerequisites for this course are Culinary Arts and Hospitality Careers and Culinary Arts and Hospitality. The required school-based laboratory for the Culinary Arts and Hospitality program is a food service kitchen and a food serving and dining area.

200758 **Food, Culinary Arts, and Hospitality Innovations**
A research-based course that reflects current knowledge and skills related to the Culinary Arts, Hospitality, or Nutrition and Dietetics major. The required school-based laboratory is a food service kitchen and a food serving and dining area or test kitchen units and experimental laboratories.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Secondary Certificate endorsed in family and consumer sciences education, or Career/Technical Certificate (CT1, CT2, CT3, CT4, CT5, Grades 6-12) endorsed in technical education, or Special Alternative Certificate (Grades 6-12) endorsed in family and consumer sciences education, or Interim Certificate (Grades 6-12 or 7-12) endorsed in family and consumer sciences education

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in family and consumer sciences education

HEALTH SCIENCE

510100 **Kaleidoscope of Health Careers**
A one-half credit course that introduces students to a variety of helping professions in the health sciences.

510101 **Community Health**
A one-half credit course designed to enable students to develop a basic understanding of personal health and the health of the community.

510105 **Clinical Spectrum – Academic Foundations**
A one-credit foundational course that provides students with the opportunity to become competent healthcare workers. Students must earn a minimum of one credit in Clinical Spectrum before advancing to any of the courses in Clinical Majors.

510106 **Clinical Spectrum - Advanced Academic Foundations**
A one-credit foundational course that provides students with the opportunity to become competent healthcare workers. Academic Foundations is the prerequisite course for Advanced Academic Foundations. Students must earn a minimum of one credit in Clinical Spectrum before advancing to any of the courses in Clinical Majors.

- 510111 Therapeutic Innovations and Dynamics of Diagnostics Nucleus**
A one-credit core course designed to introduce students to these two areas of health care. This prerequisite introductory course enables students to make choices regarding the appropriate career pathway: Therapeutic Innovations and/or Dynamics of Diagnostics.
- 510112 Therapeutic Innovations**
A one-half credit course that introduces students to occupations or functions primarily involved in changing the health status of the patient/client over time. Therapeutic/Diagnostic Nucleus is the prerequisite course for Therapeutic Innovations.
- 510113 Dynamics of Diagnostics**
A one-half credit course that provides students with an understanding of diagnostic services. Therapeutic/ Diagnostic Nucleus is the prerequisite course for Dynamics of Diagnostics.
- 510114 Environmental Health**
A one-credit course that provides students with information regarding occupations or functions involving direct or indirect patient/client care that creates a therapeutic environment for providing that care. A minimum of one credit in Clinical Spectrum is a prerequisite for Environmental Health.
- 510115 Data Link**
A one-credit course that provides students with information regarding occupations or functions that document patient/client care. A minimum of one credit in Clinical Spectrum is the prerequisite for Data Link.
- 510120 Language of Medicine**
A one-credit course designed to develop health care specific knowledge for a career in the medical field. The course uses an integrated approach for teaching medical terminology by incorporating medical terminology with anatomy and physiology and the disease process.
- 510121 Health Speak**
A one-half credit course that enables students to utilize the Internet and other technology resources to learn a new language that acquaints them with a variety of topics related to Health Science.
- 510122 Drugs in Society**
A one-half credit course that introduces students to issues regarding drugs as they impact health and lifestyles.
- 510123 Children's Health Issues**
A one-half credit course that allows students to identify specific needs relative to the growth and development of children
- 510124 Senior Health Issues**
A one-half credit course that allows students to examine lifestyles of retired active seniors in the areas of exercise, nutrition, socialization, and community participation
- 510125 Consumer Health and Safety**
A one-half credit course that enables students to explore information sources such as Medline Plus, governmental and nongovernmental sites, list serve groups, and E-mail groups.

- 510126 Mental Health Issues Across the Lifespan**
A one-half credit course that introduces students to a range of mental health issues from handicapping conditions of childhood to depression to caring for an aging parent with cognitive defects.
- 510130 Health Science Continuum (Internship)**
A two-credit course offered to students who have completed a clinical major and have a health career objective leading to immediate employment or postsecondary study. The prerequisite is a minimum of one credit in Clinical Spectrum, or one credit in Clinical Majors, or three credits in biology, advanced biology, chemistry, or physics.
- 510141 Data Link Innovations**
A research-based course that reflects current knowledge and skills related to the Data Link major.
- 510142 Diagnostics Innovations**
A research-based course that reflects current knowledge and skills related to the Dynamics of Diagnostics major.
- 510143 Environmental Health Innovations**
A research-based course that reflects current knowledge and skills related to the Environmental Health Major.
- 510144 Therapeutic Services**
A research-based course that reflects current knowledge and skills related to the Therapeutic Innovations major.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in healthcare science and technology/health science (OK2), or
Career/Technical Certificate (084, 085, 086, Grades 7-12), or Career/Technical Certificate (CTH, CT6, CT7, CT8, CT9, Grades 6-12) endorsed in healthcare science and technology/health science (OK2), or
Interim Certificate (IC1, IC2, IC3, Grades 6-12 or 7-12) endorsed in healthcare science and technology/health science (OK2)

TECHNICAL EDUCATION

ARTS AND COMMUNICATION SERVICES

- 410800 Arts and Communication Services: Innovative and Related Programs**
Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Advertising Design Technology

- 410101 Introduction to Visual Arts I**
A one-credit course that provides students with experiences and orientation for the advertising design program and preparation for working safely in a laboratory and studio environment. This course or an equivalent visual arts credit is a prerequisite for the other courses in the advertising design program.

- 410103 Graphic Illustration**
A one-credit course that provides students with instruction and experiences in object and information design. The prerequisite for this course is Desktop Publishing.
- 410104 Portfolio/Studio**
A one-credit course that provides students with the opportunity to create a wide variety of art projects utilizing traditional and electronic portfolio presentations. This course prepares students for postsecondary education and/or entry-level positions in the area of Advertising Design.
- 410105 Animation**
A one-credit course that provides students with experiences and instruction in animation, animation production and film direction utilizing new and emerging technologies. The prerequisite for this course is Introduction to Visual Arts I.

Graphic Arts Technology

- 410301 Introduction to Graphic Arts**
A one-credit course where students become aware of safety considerations, image preparation, press operation, and finishing operations in a laboratory setting. This course is the prerequisite course for all other graphic arts courses.
- 410302 Digital Image Preparation**
A one-credit course providing practical application of skills in desktop publishing, page layout, and graphics. The prerequisite for this course is Introduction to Graphic Arts.
- 410303 Camera, Image Assembly, and Platemaking**
A one-credit course designed to prepare students to become proficient in pre-press skills. The prerequisite for this course is Introduction to Graphic Arts.
- 410304 Press Operations**
A one-credit course that offers practical experience in offset printing in a work-type setting. The prerequisite for this course is Introduction to Graphic Arts.
- 410305 Finishing and Binding**
A one-credit course that offers students training in post-press finishing and binding operations. The prerequisite for this course is Introduction to Graphic Arts.
- 410306 Graphic Arts Overview**
A one-credit course that will introduce students to the essentials of how graphic arts are applied to many different communication mediums including printed materials, web pages, multimedia, photography, and television/video.
- 410307 Methods of Printing**
A one-credit course that focuses on digital and offset printing. Students will learn about digital color printing and its increasing demand among consumers, benefits of single color, two-color and full color printing. Instruction will include the use of computer-to-plate method to get an image to a printing press. The prerequisite for this course is Graphic Arts Overview.

- 410308 Design Applications**
A one-credit course providing practical application of graphic arts skills. Students will learn how to use multiple graphic design software applications to create designs for print, Internet, multimedia presentations, photography, and graphic application for television/video overlay. The prerequisite for this course is Graphic Arts Overview.
- 410309 Advanced Application of Graphic Arts**
A one-credit course which will allow students to create a printed and digital portfolio. The prerequisite for this course is Graphic Arts Overview.
- 410310 Advanced Photo and Graphic Techniques**
A one-credit course. Students will build on their knowledge of photo and graphic manipulation software in the graphic arts industries. The prerequisite for this course is Graphic Arts Overview.

Drafting/Design Technology

- 410401 Introduction to Drafting Design**
A one-credit course that serves as an introduction to the Drafting Design Technology field. It provides essential information that builds a strong foundation for the entire program. This entry-level course may be taken as one of the optional technical courses with credit applied to the Industrial Maintenance Technology program.
- 410402 Intermediate Mechanical Design**
A one-credit course designed to further the development of students' knowledge regarding the use of drafting design practices and procedures. The prerequisite for this course is Introduction to Drafting Design.
- 410403 Advanced Mechanical Design**
A one-credit course for students who are interested in engineering and related mechanical drafting areas that provides more in-depth study of mechanical design. The prerequisite for this course is Intermediate Mechanical Design.
- 410404 Three-Dimensional Solid Model Design**
A one-credit course intended to provide students the opportunity to explore 3-D modeling. The prerequisite for this course is Intermediate Mechanical Design.
- 410405 Introduction to Architectural Design**
A one-credit course that introduces students to the basic terminology, concepts, and principles of Architectural Design field. The prerequisite for this course is Intermediate Mechanical Design.
- 410406 Architectural Design II**
A one-credit course that provides students with instruction regarding more advanced and detailed architectural plans. Upon successful completion of this course, students are able to organize, lay out, and draw more advanced level residential architectural plans. The prerequisite for this course is Introduction to Architectural Design.

- 410407 **Advanced Architectural Drafting****
 A one-credit course that includes basic terminology, advanced concepts and principles of architectural design. Topics include design consideration, lettering, terminology, site plans, and construction drawings. The prerequisite for this course is Architectural Design II.
- 410408 **Drafting Descriptive Geometry****
 A one-credit course designed to teach the fundamental concepts of descriptive geometry with an emphasis on logical reasoning, visualization, and practical applications. The prerequisite for this course is Introduction to Drafting Design.
- 410409 **Manufacturing Processes for Designers****
 A one-credit course in materials and processes that includes the principles and methodology of material selection, application, and manufacturing processes.
- 410410 **Blueprint Reading for Machinist****
 A one credit course that provides students with terms and definitions, theory of orthographic projection, and other information required to interpret drawings used in the machine trades.
- 410411 **Intermediate Three-Dimensional Modeling****
 A one-credit course that provides instruction in three-dimensional (3-D) design modeling utilizing the 3-D capabilities of CAD software. The prerequisite for this course is Three-Dimensional Solid Model Design.

Commercial Photography

- 410501 **Introduction to Commercial Photography****
 A one-credit course that provides the student with training in basic camera operation, film development, and darkroom printing to include enlargement, fillers, toning and hand coloring.
- 410502 **Medium Format and Digital Commercial Photography****
 A one-credit course that continues training in camera operation, film development, and archival printing techniques. Introduction to Commercial Photography is the prerequisite for this course.
- 410503 **Large Format and Advanced Digital Commercial Photography****
 A one-credit course that advances the student through large format camera operation and commercial lighting assignments. Medium Format and Digital Commercial Photography is the prerequisite for this course.

Television Production

- 410601 **Introduction to Television Production****
 A one-credit course that provides students with a basic overview of television production skills and professions. This course is a prerequisite for all other Television Production courses.
- 410602 **Television Production—Writing/Producing/Performance****
 A one-credit course that provides students with a variety of real-world learning opportunities through laboratory experiences in television writing, producing, and performance. The prerequisite for this course is Introduction to Television Production.

410603 Television Production—Studio Operations
A one-credit course that provides students with opportunities to participate in real-world laboratory experiences. The prerequisite for this course is Introduction to Television Production.

410604 Television Production—Photography/Editing
A one-credit course that provides students with a variety of real-world learning opportunities through laboratory experiences in photography and editing. The prerequisite for this course is Introduction to Television Production.

410605 Advanced Television Production
A one-credit course that provides students with the opportunity to create and market professional video productions. The prerequisite courses for Advanced Television Production are Introduction to Television Production and one of the Television Production Courses: Writing/Producing/Performance, Studio Operations, or Photography/Editing.

Floral Design

410701 Introduction to Floral Design
A one-credit course that introduces students to the history and appreciation for floral art through exploration of design principles, plant materials, and compositional forms.

410702 Intermediate Floral Design
A one-credit course designed to further the development of students' knowledge and skill in floral design. The prerequisite for this course is Introduction to Floral Design.

410703 Advanced Floral Design
A one-credit course that provides students with an advanced study of floral design. The prerequisite for this course is Intermediate Floral Design.

CONSTRUCTION

430800 Construction: Innovative and Related Programs
Designing, planning, managing, building, and maintaining the built environment.

430801 Introduction to Construction Technology
A one-credit course that introduces students to the career opportunities available in the field of construction. Students are exposed to architecture, engineering, and construction concepts common to all construction processes.

434748 Introduction to Occupational Safety
A one-half credit course that introduces students to the importance of occupational safety and health in the workplace. Students will be exposed to OSHA requirements and cover the modules needed to obtain the 10-hour OSHA safety credential.

Cabinetmaking And Millwork

430101 Introduction to Cabinetmaking and Millwork
A one-credit course designed to provide students with basic knowledge and skills regarding cabinetmaking.

430102 Basic Cabinetmaking
A one-credit course that provides students with basic fundamentals of cabinetmaking. The prerequisite for this course is Introduction to Cabinetmaking and Millwork.

430103 Advanced Cabinetmaking
A one-credit course that provides students with an advanced study of cabinetmaking. The prerequisite for this course is Basic Cabinetmaking.

Carpentry

430201 Introduction to Carpentry
A one-credit course designed to provide students with basic knowledge and skills of the Carpentry program.

430202 Basic Carpentry
A one-credit course that provides students with knowledge and skills regarding the fundamentals of carpentry. The prerequisite for this course is Introduction to Carpentry.

430203 Advanced Carpentry
A one-credit course that provides students with an advanced study of carpentry. The prerequisite for this course is Basic Carpentry.

430204 Residential Finishing
A one-credit course designed to provide students with knowledge and skills regarding the application of interior and exterior finishing. The prerequisite for this course is Basic Carpentry.

Electrical Technology

430301 Basic Wiring
A one-credit course that addresses a broad range of topics that provide students with a basic understanding of electrical theory and wiring.

430302 Residential Wiring
A one-credit course that addresses various aspects of residential wiring. The prerequisite for this course is Basic Wiring.

430303 Commercial Wiring
A one-credit course that provides students with knowledge and skills for wiring commercial buildings. The prerequisite for this course is Basic Wiring.

430304 Industrial Wiring
A one-credit course that provides students with information regarding the basic types of wiring for a factory. The prerequisite for this course is Basic Wiring.

430305 AC/DC Motors and Controls
A one-credit course that provides students with information regarding alternating and direct current motors and industrial motor controls. The prerequisite for this course is Basic Wiring.

430306 Advanced National Electrical Code and Journeyman's Preparation

A one-credit course that provides students with information regarding Advanced NEC and Journeyman's Preparation applications for special occupancies. The prerequisite for this course is Basic Wiring.

Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)

430401 Introduction to Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)

A one-credit course that introduces students to the basic principles of heating, ventilation, air conditioning, and refrigeration.

430402 Compression Refrigeration

A one-credit course that introduces students to different components of a refrigeration system and the functions of each component. The prerequisite for this course is Introduction to HVACR.

430403 Introduction to Electricity

A one-credit course designed to provide students with the basic knowledge and skills regarding electrical theory, circuitry, and computers as they relate to HVACR.

430404 Electrical Components and Controls

A one-credit course that introduces students to electrical components and controls for the HVACR systems. The prerequisites for this course are Introduction to Electricity and Compression Refrigeration.

430405 Heating

A one-credit course that introduces students to the fundamental concepts of heating systems with emphasis on components, operations, general service procedures, and basic installation procedures. The prerequisite for this course is Introduction to Electricity.

Masonry

430501 Introduction to Masonry

A one-credit course that is designed to provide students with the basic knowledge and skills of masonry.

430502 Block Construction

A one-credit course that provides students with the fundamentals of block construction. The prerequisite for this course is Introduction to Masonry.

430503 Brick Construction

A one-credit course that provides students with the fundamentals of brick construction. The prerequisite for this course is Introduction to Masonry.

430504 Advanced Masonry Applications

A one-credit course that provides students with an advanced study of masonry applications such as arches, glass blocks, chimneys, and fireplaces. The prerequisite for this course is Brick Construction.

- 430505 Stucco**
A one-credit course that introduces the history of the trade and industry. Emphasis is placed on the uses of plaster, estimating materials and costs, casting ornamental plaster designs, lath bases, plaster mixes, methods of plastering, blueprint reading, and safety.
- 430506 Masonry Specialties**
A one-credit course that provides specialized classroom instruction and project-based laboratory experiences in masonry techniques to lay and bond building material including brick, concrete block, and terra-cotta block using mortar and other substances to construct and/or repair a wall, partitions, arches, fireplaces, and other structures.
- 430507 Composite Masonry Construction**
A one-credit course that is designed to provide students with basic knowledge and skills in composite wall construction. The prerequisites for this course are Introduction to Masonry, Brick Construction and Block Construction.
- 430508 Commercial Masonry Construction**
A one-credit course that is designed to provide students with basic knowledge and skills in commercial masonry construction. The prerequisites for this course are Introduction to Masonry, Brick Construction and Block Construction.
- 430509 Residential Masonry Construction**
A one-credit course that is designed to provide students with basic knowledge and skills in residential masonry construction. The prerequisites for this course are Introduction to Masonry, Brick Construction and Block Construction.
- 430510 Decorative Masonry Construction**
A one-credit course that is designed to provide students with basic knowledge and skills in decorative masonry construction. The prerequisites for this course are Introduction to Masonry, Brick Construction and Block Construction.
- 430511 Fireplace and Chimney Construction**
A one-credit course that is designed to provide students with basic knowledge and skills in fireplace and chimney construction. The prerequisites for this course are Introduction to Masonry, Brick Construction and Block Construction.

Plumbing

- 430601 Introduction to Plumbing**
A one-credit course that provides students with fundamental plumbing principles, practices, and history.
- 430602 Plumbing Applications**
A one-credit course that provides students with an application of Introduction to Plumbing.

- 430603 Pipes and Fittings**
A one-credit course that provides students with the theory of joining pipes and fittings.
- 430604 Joining Pipes and Fittings**
A one-credit course that trains students to identify pipe and fittings, proper methods for joining all types of pipe and fittings, hanging and securing pipe and using materials and tools.
- 430605 Pressure and Non-Pressure Systems**
A one-credit course that covers pressure and non-pressure systems including piping for potable water, drainage, waste, vent, gas, air, and water.
- 430606 Plumbing Repair and Installation**
A one-credit course that enables students to read and follow schematic/diagrams/rough-in sheets to install or repair plumbing fixtures, to troubleshoot and make repairs.
- 430607 Introduction to Pipefitting**
A one-credit course that covers fundamental pipefitting principles, practices, and history.
- 430608 Weld Pipe Fabrication and Process Piping**
A one-credit course that focuses on various piping procedures and materials used to transport materials in industrial processes.

HUMAN SERVICES

- 440400 Human Services: Innovative and Related Programs**
Building linkages relative to families and human services and needs.

Cosmetology

- 440101 Introduction to Cosmetology**
A one-credit course that provides students with a study of personal and professional image, ethical conduct, sanitation, hairstyling, and nail care.
- 440102 Chemical Methodology**
A one-credit course that focuses on the theory of hair and scalp disorders, permanent waving, chemical relaxers, and hair composition. The prerequisite for this course is Introduction to Cosmetology.
- 440103 Colorimetry (Hair Coloring and Lightening)**
A one-credit course that provides students with study and experience in hair coloring and lightening. The prerequisite for this course is Introduction to Cosmetology.
- 440104 Salon Practices and Management**
A one-credit course that helps students develop entry-level management skills for the beauty industry. Students practice all phases of cosmetology in a salon setting. The prerequisite for this course is Introduction to Cosmetology.

- 440105 Esthetics**
A one-credit course that focuses on cosmetic products and skin care. This course and the Cosmetology Board Requirements, Examinations, and Specialized Topics course may be taken in preparation for the examination for Esthetician.
- 440106 Nail Care and Applications**
A one-credit course that focuses on all aspects of nail care.
- 440107 Nail Art and Applications**
A one-credit course that provides students with a study of and practice in advanced nail techniques. The prerequisite for this course is Nail Care and Applications.
- 440108 Cosmetology Board Requirements, Examinations, and Specialized Topics**
A one-credit culminating course in which students are provided a complete review of all procedures and practical skills pertaining to the program, as well as additional instruction unique to the student's desired field in cosmetology. The prerequisites for this course depend upon the certification the student is pursuing.

Barbering

- 440501 Orientation to Barbering**
A one-credit course that provides an orientation to professional barber-styling. Topics include professional image, basic fundamentals, and the history of barber-styling. Upon completion, the student should be able to identify the core concepts of the profession.
- 440502 Science of Barbering**
A one-credit course that introduces students to the basic science of barber-styling. Topics include anatomy/physiology; disorders and treatments of the skin, scalp, and hair; theory of facial and scalp massage; and the theory of bacteriology and sanitation. Upon completion, students should be familiar with the anatomical structures, as well as disorders and treatments of the skin, scalp, and hair; and be able to identify types of bacteria and methods of sanitation. The prerequisite for this course is Orientation to Barbering.
- 440503 Hair Cutting Basics**
A one-credit course that provides students with the study of and experience in razor and layer cuts, shaving, blow drying, massage, facials, and hairpiece fitting. The prerequisite for this course is Orientation to Barbering.

Public Service

- 440301 Introduction to Criminal Justice**
A one-credit course designed to introduce students to the fields of law enforcement and court and correctional systems. The content includes interpersonal, communication, and employability skills and career opportunities in law enforcement, court systems, and correctional systems.

- 440302 Criminal Investigations**
A one-credit course designed to develop competencies in crime and accident investigation procedures, forensic science tasks, crime prevention, and property control procedures.
- 440303 Police Patrol**
A one-credit course that is designed to develop competencies in patrol, traffic control, defensive tactics and physical proficiency skills, first aid, and cardiopulmonary resuscitation skills.
- 440304 Introduction to Law and the American Legal System**
A one-credit course designed to introduce students to fundamental areas of law, the American legal system, and legal professions. The content includes basic theory and application in constitutional, family, criminal, contract, commercial, probate, and property law; legal skills including research, computer applications, and employability and torts.
- 440305 Introduction to Fire Science**
A one-credit course that introduces students to the basic activities and principles of fire fighting. Topics include fire behavior, communication equipment and skills, portable fire extinguishers, structural design, personal protective equipment, ropes and knots, search and rescue, ground ladders, ventilation, and fundamentals of a water supply system, fire hose, and fire stream.
- 440306 Fire Fighting**
A one-credit course that introduces students to the basics of fire fighting. Topics include fire prevention, sprinkler systems, fire control, loss control, hazardous materials, health and human relations, and first responder.

Tailoring

- 440701 Today's Custom Tailoring: Basic Construction**
A one-credit course with attention to details of a well made garment, preliminary focus on basic hand stitches, various machine operations and basic construction of garments with emphasis on understanding fabrics and fibers.
- 440702 Fashion Influence: Design and Technology**
A one-credit course that gives the history of fashion and the exploration of clothing, construction, fabrics, and adornments both past and present; the role of fashion in history and how it shapes the world in which we live. The prerequisite for this course is Today's Custom Tailoring: Basic Construction.
- 440703 Contemporary Fashion Design**
A one-credit course on dressing for success with the power of style. The prerequisite to this course is Fashion Influence: Design and Technology.

Tourism and Lodging Services

- 440601 Introduction to Tourism and Lodging**
A one-credit course that introduces students to the major segments of the tourism and lodging industry and the economic impact the industry has on the local, state, national and global economy. The products, services, and packages offered to the business and leisure travelers by different types of businesses in the industry are examined.
- 440602 Hotel and Lodging**
A one-credit course that focuses on the application of basic principles of the hotel and lodging industry. Students develop skills in various functional areas of a hotel's operation, including front desk operations, guest registration, housekeeping, convention sales, food and beverage service, and guest services.
- 440603 Hotel and Lodging Management**
A one-credit course that focuses on the management of people and operations in the hotel and lodging industry. Emphasis is given to guest and public relations, group events management, liability and safety issues and legal requirements. The prerequisite for this course is Hotel and Lodging.
- 440604 Travel and Tourism**
A one-credit course that introduces students to the travel and tourism industry. Emphasis is placed on career opportunities and trends within the field. Topics include basics of the travel industry, travel reference guides, agency automated systems, transportation modes, hotels and resorts, and special customer services.

INFORMATION TECHNOLOGY SERVICES

- 460400 Information Technology: Innovative and Related Programs**
Design, development, support and management of hardware, software, multimedia, and systems integration services.

Computer Electronics Technology

- 460111 Computer Maintenance**
A one-credit course that provides students with knowledge and skills regarding the maintenance, upgrading, and configuration of PC hardware, components, and peripherals.
- 460112 Technical Computer Applications**
A one-credit course that provides students with knowledge and skills regarding computer operating systems and application software.

460113 Introduction to Networking
A one-credit course designed to provide students with knowledge and skills regarding computer basics, the 7-layer OSI model, number system conversions, and Local Area Network (LAN) devices. The prerequisite for this course, which may be taken concurrently, is DC/AC Fundamentals or the equivalent.

460114 DC/AC Fundamentals
A one-credit course that provides students with an overview of DC and AC and is specifically intended for students entering Computer Electronics, Internetworking, or Information Technology.

Electronics Technology

460211 Direct Current
A one-credit course that provides students with information regarding basic atomic theory, electronic components, quantities, and measurements.

460212 Alternating Current
A one-credit course that provides students with information regarding measurement, circuit analysis, reactive circuits, magnetism, power, and test equipment. The prerequisite for this course is Direct Current.

460213 Semiconductors
A one-credit course that provides students with information regarding semiconductor device construction, characteristics of diodes, transistors, circuit configuration, and class of operation of amplifiers. The prerequisite for this course is Alternating Current.

460214 Digital
A one-credit course that introduces students to digital fundamental and number systems and includes logic gates, logic devices, and circuit construction.

460215 Computer Maintenance
A one-credit course that provides students with information regarding the maintenance, upgrading, and configuration of PC hardware, components, and peripherals.

460216 Electromechanical Controls
A one-credit course that provides students with information regarding control systems, input/output devices, fluid power, controllers, and robotics. The prerequisite for this course is Alternating Current.

460217 Robotics
A one-credit course designed to introduce students to the fundamentals of robotics. This course includes topics such as fundamentals of electrical current, digital circuits, and electronic control systems. Upon completion of this course, students will have a basic understanding of robotics. Students will design and construct a robotic that will perform specific tasks as a requirement for successful completion of this course.

Internetworking

- 460311 Local Area Networks**
A one-credit course that provides students with information regarding computer basics, the 7-layer OSI model, number system conversions, and LAN devices. The prerequisite for this course, which may be taken concurrently, is DC/AC Fundamentals or the equivalent.
- 460312 Routers**
A one-credit course that provides students with knowledge and skills regarding router basics and network design. The prerequisite for this course is Local Area Networks.
- 460313 LAN Switching**
A one-credit course that provides students with the knowledge and skills regarding the benefits of switches and Virtual LANs (VLANs). Access Control Lists and IPX/SPX protocol are topics for discussion in this course. The prerequisite for this course is Routers.
- 460314 Wide Area Networks**
A one-credit course that provides students with knowledge and skills regarding WAN design and protocols. The prerequisite for this course is LAN Switching.
- 460114 DC/AC Fundamentals**
A one-credit course that provides students with an overview of DC and AC and is specifically intended for students entering Computer Electronics, Internetworking, or Information Technology.
- 460319 Wireless Local Area Networks**
A one-credit course that focuses on the design, planning, implementation, operation and troubleshooting of Wireless Local Area Networks (WLANs). It contains a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands on skills in the following areas: wireless LAN setup and troubleshooting, 802.11 (a, b, and g) technologies, products and solutions, radio technologies, WLAN applications and site surveys, resilient WLAN products, design, installation, configuration and troubleshooting, WLAN security, vendor interoperability strategies and emerging wireless technologies. This is a preparatory course for the Wireless LAN Field Engineer certification examination. The prerequisite for this course is Local Area Networks.

TRANSPORTATION AND DISTRIBUTION

- 470800 Transportation and Distribution: Innovative and Related Programs**
Planning, management, and movement of people, materials and goods by road, pipeline, air, rail and water and related professional and technical support services including facility maintenance.

- 434748 Introduction to Occupational Safety**
A one-half credit course that introduces students to the importance of occupational safety and health in the workplace. Students will be exposed to OSHA requirements and cover the modules needed to obtain the 10-hour OSHA safety credential.

Aviation Technology

- 470191 Aircraft Theory of Flight and Operation**
A one-credit course that provides students with the basic theory of flight, aircraft nomenclature, aircraft construction and basic operating controls.
- 470192 Aircraft Sheet Metal Structures, Materials, and Processes**
A one-credit course that introduces students to aircraft hardware, tools and materials, precision measuring and non-destructive testing, aircraft ground operations, fuels, cleaning and corrosion control methods and the use of aircraft drawings.
- 470193 Aircraft Non-Metallic Structures**
A one-credit course that introduces students to the study of repairs of non-metallic aircraft surfaces and structures.
- 470194 Aviation Instrument and Hydraulic Systems**
A one-credit course that introduces students to aircraft rain and ice removal systems and aircraft instrument systems.
- 470195 Aircraft Engine and Propeller Theory and Operation**
A one-credit course that provides a study of basic electricity leading into the theory of engine theory and operation.
- 470196 Aviation Turbine Theory and Inspections**
A one-credit course that introduces the turbine engine development, application, theory, components, materials/construction and power extraction.
- 470197 Airframe Systems Inspection/Rigging and Weight and Balance**
A one-credit course that introduces students to aircraft structural assembly and rigging and required inspections.
- 470198 Introduction to Aircraft Welding**
A one-credit course that introduces students to the study of repair of steel structures utilizing arc and gas welding systems.

Automotive Service Technology

- 470301 Electrical/Electronic I**
A one-credit course that provides students with classroom and laboratory instruction in electrical and electronic system operations, diagnosis, and repairs.
- 470302 Electrical/Electronic II/Brakes I**
A one-credit course that provides students with classroom and laboratory instruction in electrical accessories and brake system operations, diagnosis, and repairs.
- 470303 Brakes II/Suspension and Steering**
A one-credit course that is designed to provide students with a working knowledge of brake assist assemblies, anti-lock systems, suspension systems, and steering systems.

- 470304 Engine Performance I**
A one-credit course that provides students with knowledge and skills regarding general engine diagnosis, computerized engine controls, ignition systems, fuel systems, and emission control systems.
- 470305 Engine Performance II**
A one-credit course that provides advanced students with in-depth information regarding general engine diagnosis, computerized engine controls, ignition systems, fuel systems, and emission control systems.
- 470306 Automatic Transmissions**
A one-credit course designed to provide students with knowledge regarding the construction and operation of automatic transmissions/transaxles.
- 470307 Manual Drive Train and Axles**
A one-credit course designed to provide students with knowledge regarding the construction and operation of manual transmissions/transaxles.
- 470308 Heating and Air Conditioning**
A one-credit course that provides students with classroom and laboratory experiences regarding system operations, repairs, and service procedures.
- 470309 Engine Repair**
A one-credit course that provides students with classroom and laboratory experiences regarding diagnosing and repairing gasoline engines.

Collision Repair Technology

- 470401 Painting and Refinishing I**
A one-credit course that provides an introduction to current and emerging technologies enabling students to understand the basic principles of automotive finishes.
- 470402 Painting and Refinishing II**
A one-credit course that provides students with specialized classroom and laboratory experiences in the application of various automotive topcoats. The prerequisite for this course is Painting and Refinishing I.
- 470403 Painting and Refinishing III and Option A**
470404 Painting and Refinishing III and Option B
A one-credit course that is designed to provide advanced students with the technology associated with automotive final detail finishes. To fulfill the requirements of the course, students must complete either Option A or Option B. The specific option offered is determined by the local school.
- 470405 Metal Welding and Cutting**
A one-credit course that provides students with classroom and laboratory experiences in the various automotive cutting and welding processes.

- 470406 Mechanical and Electrical Components I**
A one-credit course that provides students with classroom and laboratory instruction in collision-related mechanical repairs.
- 470407 Mechanical and Electrical Components II**
A one-credit course that provides students with classroom and laboratory instruction in collision-related and electrical mechanical repairs.
- 470408 Structural Analysis and Damage Repair**
A one-credit course that provides students with classroom instruction and laboratory experiences in the methods of determining structural misalignment and the processes utilized to effect repairs.
- 470409 Nonstructural Analysis and Damage Repair**
A one-credit course that provides students with current and emerging technologies in analysis and repair of collision-damaged nonstructural components.

Marine Technology

- 470671 Introduction to Marine Technology**
A one-credit course designed to introduce the student to the marine industry and the many career paths available. Upon completion, students will have a basic understanding of the role of an able seaman in the marine industry.
- 470672 Intermediate Navigation Technology**
A one-credit course essential for any student pursuing a license for any tonnage class. Primary focus of the course is on the International and the Inland Rules of the Road for preventing collisions at sea.
- 470673 Advanced Navigation Technology**
A one-credit course that is an in-depth study of marine navigation and how technology has changed the way that today's mariners navigate.
- 470674 Intermediate Fisheries Technology**
A one-credit course that is designed to introduce students to the many local fishing industries within the state.
- 470675 Advanced Fisheries Technology**
A one-credit course that introduces students to an in depth study of commercial fisheries throughout the United States and around the world.
- 470676 Introduction to Maritime Engineering Technology**
A one-credit course that introduces students to engineering on load vessels and will include diesel engines, reverse and reduction gears, and steering systems on board mechanical systems. Components include welding and cutting.
- 470678 Advanced Maritime Engineering Technology**
A one-credit course that provides students with the study of hydraulic theory, power plant theory, A/C and D/C power technical repair, close tolerance practical work, technical drawing, reading, and project work. The prerequisite for this course is Introduction to Maritime Engineering Technology.

Power Equipment Technology

- 470701 Introduction to Power Equipment Technology**
A one-credit course that provides students with information regarding current and emerging technologies in this field.
- 470702 Two-Cycle Engine Repair Technology**
A one-credit course that provides students with classroom and laboratory experiences utilizing current and emerging technologies for two-cycle engines.
- 470703 Four-Cycle Engine Repair Technology**
A one-credit course that provides students with classroom and laboratory experiences utilizing current and emerging technologies related to four-cycle engines.
- 470704 Advanced Power Equipment Repair Technology**
A one-credit course that provides students with specialized classroom and laboratory experiences for diagnosing and repairing two- and four-cycle small engines. The prerequisites for this course are Two-Cycle Engine Repair Technology and Four-Cycle Engine Repair Technology.
- 470705 Residential and Commercial Power Equipment Operation**
A one-credit course that provides students with classroom and laboratory experiences regarding equipment power by two- and four-cycle engines available for residential and commercial use. The prerequisite for this course is Advanced Power Equipment Repair Technology.
- 470706 Recreational Power Equipment Operation**
A one-credit course that provides students with classroom and laboratory experiences regarding equipment power by two- and four-cycle engines available for recreational use. The prerequisite for this course is Advanced Power Equipment Repair Technology.

Diesel Technology

- 470811 Diesel Brakes**
A one-credit course that provides students with classroom and laboratory experiences diagnosing braking systems. Topics include air brakes, mechanical/foundation, parking brakes, hydraulic brakes, power assist units, air and hydraulic antilock brake systems, and automatic transmission controls.
- 470812 Diesel Engines I**
A one-credit course that provides students with classroom and laboratory experiences diagnosing and repairing diesel engines. Topics include general engine, cylinder head and valve train, engine block, lubrication systems, coolant system, air induction and exhaust systems, fuel system, and engine brakes.
- 470813 Diesel Engines II – Electrical/Electronics I**
A one-credit course that provides students with classroom and laboratory experiences in diagnosing and repairing diesel engines. Topics include fuel system, engine brakes, general electrical system, and batteries.

470814 Diesel Electrical/Electronics II
A one-credit course that provides students with classroom and laboratory experiences in diagnosing and repairing diesel electrical/electronic systems. Topics include starting, charging, and lighting systems; gauges and warning devices; and related electrical systems.

470815 Diesel Suspension and Alignment
A one-credit course that provides students with classroom and laboratory experiences diagnosing and repairing steering columns, steering units and linkage, suspension systems, wheel alignment, wheels and tires, and frame service.

470816 Diesel Preventive Maintenance Inspection
A one-credit course that provides students with classroom and laboratory experiences in preventive maintenance. Topics include engine system, fuel systems, air induction and exhaust systems, cooling systems, lubrication systems, cab and hood, safety equipment, hardware, air brakes, hydraulic brakes, drive train suspension and steering systems, tires and wheels, frame and fifth wheel.

MANUFACTURING

480800 Manufacturing: Innovative and Related Programs
Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Automated Manufacturing

480812 Introduction to Manufacturing
A one-credit course designed to provide an introduction to material processing technology and job opportunities for students pursuing careers in manufacturing processes.

480814 Introduction to Automotive Production
A one-credit course that provides students with an introduction to automotive production systems and the skills and knowledge needed in the automotive manufacturing profession.

434748 Introduction to Occupational Safety
A one-half credit course that introduces students to the importance of occupational safety and health in the workplace. Students will be exposed to OSHA requirements and cover the modules needed to obtain the 10-hour OSHA safety credential.

Industrial Systems Technology

430301 Basic Wiring
A one-credit course that addresses a broad range of topics that provide students with a basic understanding of electrical theory and wiring.

430304 Industrial Wiring
A one-credit course that provides students with information regarding the basic types of wiring for a factory. The prerequisite for this course is Basic Wiring.

- 430305 AC/DC Motors and Controls**
A one-credit course that provides students with information regarding alternating and direct current motors and industrial motor controls. The prerequisite for this course is Basic Wiring.
- 460211 Direct Current**
A one-credit course that provides students with information regarding basic atomic theory, electronic components, quantities, and measurements.
- 460212 Alternating Current**
A one-credit course that provides students with information regarding measurement, circuit analysis, reactive circuits, magnetism, power, and test equipment. The prerequisite for this course is Direct Current.
- 480511 Introduction to Precision Machining Level I**
A one-credit course that provides an introduction to manufacturing processes and job opportunities for students who are pursuing careers in manufacturing.
- 480512 Introduction to Precision Machining Including CNC Level I**
A one-credit course that introduces students to manufacturing processes and job opportunities in manufacturing with emphasis on National Skills Standards of the National Tool and Die Association, Machining Association and NIMS. The prerequisite for this course is Introduction to Precision Machining Level I.
- 480801 Introduction to Welding Technology Level I**
A one-credit course that provides students with a fundamental understanding of blueprint reading, weld symbols and weld joints, rules for safety, and identification and use of tools and shop equipment.
- 410401 Introduction to Drafting Design**
A one-credit course that serves as an introduction to the Drafting Design Technology field.
- 430401 Introduction to Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)**
A one-credit course that introduces students to the basic principles of heating, ventilation, air conditioning, and refrigeration.
- 480211 Industrial Mechanics and Pneumatics**
A one-credit course that provides students with instruction in fundamental concepts and theories for the safe operation of pneumatic, mechanical, and hydraulic components and systems used with industrial equipment.

Industrial Process Control

- 480311 Introduction to Process Technology**
A one-credit course designed to introduce students to the process industry and the role of the technician in the chemical industry.

- 480312 Distributive Control System Operation**
A one-credit course that introduces students to basic plant organization; how systems interact, how to control pressure, flow, temperature, and level; how instrument signals control and feedback information within the system; the basics of trouble shooting malfunctions in the process; and the repair of minor maintenance problems.
- 480313 Industrial Tools**
A one-credit course that gives students the opportunity to operate hand tools, portable power tools, and stationary power tools.
- 480314 Plant Operator Technician**
A one-credit course that helps students understand the operation of power plants, paper mills, chemical plants, water services, and refineries.
- 480315 Plant Equipment**
A one-credit course in which basic plant equipment is identified, inspected, and operated.
- 480316 Process Control Instrumentation**
A one-credit course that details the functions of plant control systems.
- 480317 Industrial Measurement**
A one-credit course in which methods of measuring flow, level, temperature, and pressure are covered.
- 480318 Industrial Maintenance**
A one-credit course that introduces students to the basics of process plant maintenance and process plant preventative maintenance.

Precision Machining Technology

- 480511 Introduction to Precision Machining Level I**
A one-credit course that provides an introduction to manufacturing processes and job opportunities for students who are pursuing careers in manufacturing. This entry-level course may be taken as one of the optional technical courses with credit applied to the Industrial Maintenance Technology program.
- 480512 Introduction to Precision Machining Including CNC Level I**
A one-credit course that introduces students to manufacturing processes and job opportunities in manufacturing with emphasis on National Skills Standards of the National Tool and Die Association, Machining Association, and NIMS. The prerequisite for this course is Introduction to Precision Machining Level I. This entry-level course may be taken as one of the optional technical courses with credit applied to the Industrial Maintenance Technology program.
- 480513 Intermediate Precision Machining Level II**
A one-credit course that provides students with instruction in manufacturing and reflects the National Skills Standards of the National Tool and Die Association, Machining Association, and NIMS. The prerequisite for this course is Introduction to Precision Machining Including CNC Level I.

- 480514 Intermediate Precision Machining Including CNC Level II**
A one-credit course that provides students with instruction in manufacturing and reflects the National Skills Standards of the National Tool and Die Association, Machining Association, and NIMS. The prerequisite for this course is Intermediate Precision Machining Level II.
- 480515 Advanced Precision Machining Level III**
A one-credit course that provides students with specialized instruction regarding metals manufacturing and related processes required by local industry. The prerequisite for this course is Intermediate Precision Machining Including CNC Level II.
- 480516 Advanced Precision Machining Including CNC Level III**
A one-credit course that provides students with advanced applications for manufacturing and related processes. The prerequisite for this course is Advanced Precision Machining Level III.
- 480517 Computer Numeric Control Special Projects**
A one-credit course that provides students with opportunities to plan, execute, and present results of individual projects related to machining. The prerequisite for this course is Intermediate Precision Machining Level II.
- 480518 Manual Machining Special Projects**
A one-credit course that provides students with opportunities to plan, execute, and present results of individual projects related to machining. The prerequisite for this course is Intermediate Precision Machining Level II.
- 480520 Introduction to Computer Aided Machining (CAM)**
A one-credit course that provides students with specialized instruction regarding metals manufacturing and related processes required by local industry. The prerequisite for this course is Advanced Precision Machining including CNC level III.
- 480521 Intermediate Computer Aided Machining (CAM)**
A one-credit course that provides students with specialized instruction regarding metals manufacturing and related processes required by local industry. The prerequisite for this course is Introduction to Computer Aided Machining (CAM).
- 480522 Advanced Computer Aided Machining (CAM)**
A one-credit course that provides students with specialized instruction regarding metals manufacturing and related processes required by local industry. The prerequisite for this course is Intermediate Computer Aided Machining (CAM).
- 480523 Introduction to Coordinate Measuring Machine (CMM)**
A one-credit course that provides students with specialized instruction regarding inspection of manufactured parts and related processes required by local industry.

Welding Technology

- 480801 Introduction to Welding Technology Level I**
A one-credit course that provides students with a fundamental understanding of blueprint reading, weld symbols and weld joints, rules for safety, and identification and use of tools and shop equipment. This entry-level course may be taken as one of the optional technical courses with credit applied to the Industrial Maintenance Technology program.
- 480802 Intermediate Shielded Metal Arc Welding (SMAW), Fillet Welds, and Plasma Arc Cutting (PAC) Level II**
A one-credit course that provides students with instruction on safety and terminology in the Shielded Metal Arc Welding (SMAW) process, equipment identification, and setup and operation of SMAW equipment. The prerequisite for this course is Introduction to Welding Technology Level I.
- 480803 Advanced Shielded Metal Arc Welding (SMAW), Fillet Welds, and Air Carbon Arc Cutting (CAC-A) Level III**
A one-credit course that introduces students to the proper setup and operation Shielded Metal Arc Welding (SMAW) equipment in the vertical (3-F) and overhead (4-F) positions. The prerequisite for this course is Intermediate Shielded Metal Arc Welding (SMAW), Fillet Welds, and Plasma Arc Cutting (PAC) Level II.
- 480820 Introduction to Welding Technology Level I/Articulated**
A one-credit course that provides students with a fundamental understanding of blueprint reading, weld symbols and weld joints, rules for safety, and identification and use of tools and shop equipment.
- 480821 Intermediate Shielded Metal Arc Welding (SMAW), Fillet Welds, and Plasma Arc Cutting (PAC) Level II/Articulated**
A one-credit course that provides students with instruction on safety and terminology in the Shielded Metal Arc (SMAW) processes, equipment identification, and setup and operation of SMAW equipment. The prerequisite for this course is Introduction to Welding Technology Level I/Articulated.
- 480822 Advanced Shielded Metal Arc Welding (SMAW), Fillet Welds, and Air Carbon Arc Cutting (CAC-A) Level III/Articulated**
A one-credit course that introduces students to the proper setup and operation of Shielded Metal Arc Welding (SMAW) equipment in the vertical (3-F) and overhead (4-F) positions. The prerequisite for this course is Intermediate Shielded Metal Arc Welding (SMAW), Fillet Welds and Plasma Arc Cutting (PAC) Level II/Articulated.
- 480804 Intermediate Shielded Metal Arc Welding (SMAW), Groove Welds, and Welding Inspection and Testing Level I**
A one-credit course that provides instruction and demonstration in the Shielded Metal Arc Welding (SMAW) process on carbon and steel plate with various size E-6010 and E-7018 electrodes in the flat (1-G) and horizontal (2-G) positions. The prerequisite for this course is Advanced Shielded Metal Arc Welding (SMAW), Fillet Welds, and Air Carbon Arc Cutting (CAC-A) Level III, or Advanced Shielded Metal Arc Welding (SMAW), Fillet Welds, and Air Carbon Arc Cutting (CAC-A) Level III/Articulated.

- 480805 Advanced Shielded Metal Arc Welding (SMAW), Groove Welds, and Welding Inspection and Testing Level II**
 A one-credit course that provides instruction and demonstrations in the shielded metal arc welding process on carbon steel plate with various size E-6010 and E-7018 electrodes in the vertical (3-G) and overhead (4-G) positions. The prerequisite for this course is Intermediate Shielded Metal Arc Welding (SMAW), Groove Welds, and Welding Inspection and Testing Level I.
- 480806 Gas Metal Arc Welding (GMAW)**
 A one-credit course that provides instruction on the various transfer methods of Gas Metal Arc Welding (GMAW) fillet welds.
- 480807 Flux Core Arc Welding (FCAW)**
 A one-credit course that introduces students to the Flux Core Arc Welding (FCAW) process.
- 480808 Intermediate Gas Tungsten Arc Welding (GTAW) for Ferrous and Nonferrous Metals Level I**
 A one-credit course that provides students with instruction and hands-on activities utilizing the Gas Tungsten Arc Welding (GTAW) process for producing fillet welds in the flat (1-F) and horizontal (2-F) positions using both ferrous and nonferrous metals according to AWS D1.1 code.
- 480809 Advanced Gas Tungsten Arc Welding (GTAW) for Ferrous and Nonferrous Metals Level II**
 A one-credit course that provides students with instruction and hands-on activities utilizing the Gas Tungsten Arc Welding (GTAW) process for producing fillet welds in the vertical (3-F) and overhead (4-F) positions, using both ferrous and nonferrous metals, according to AWS D1.1 code. The prerequisite for this course is Intermediate Gas Tungsten Arc Welding (GTAW) for Ferrous and Nonferrous Metals Level I.
- 480810 Welding Technology Special Projects**
 A one-credit course that provides students with opportunities to plan, execute, and present results of individual or group projects related to welding. Successful completion of two or more Welding Technology courses is the prerequisite.

IN-FIELD REQUIREMENTS:
 CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate endorsed in technical education, or
- Career/Technical Certificate (022, 045, 044, Grades 7-12), or Career/Technical Certificate (CT1, CT2, CT3, CT4, CT5, Grades 6-12) endorsed in technical education, or
- Special Alternative Certificate (Grades 6-12) endorsed in technical education, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in technical education

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in technical education

SCIENCE, ENGINEERING, AND TECHNOLOGY

490400 Science, Engineering, and Technology: Innovative and Related Programs

Planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.

Pre-Engineering Technology

220101 Principles of Engineering

A one-credit course that provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems.

220102 Introduction to Engineering Design

A one-credit course that emphasizes the development of a design. Students use computer software to produce, analyze, and evaluate models of projects solutions.

220103 Digital Electronics

A one-credit course that introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in watches, calculators, video games, and computers.

220104 Engineering Design and Development

A one-credit course that lets students apply what they have learned in academic and pre-engineering courses as they complete challenging, self-directed projects. Students work in teams to design and build solutions to authentic engineering problems.

220105 Computer Integrated Manufacturing

A one-credit course that teaches the fundamentals of computerized manufacturing technology. It builds on the solid-modeling skills developed in the Introduction to Engineering Design course.

220106 Civil Engineering and Architecture

A one-credit course that provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other.

220201 Engineering Essentials

A one-credit course that provides students with knowledge and skills regarding applied science in mechanical fluid, electrical, and thermal systems. This course addresses force, work, rate, and electrical resistance.

220202 Advanced Engineering Essentials

A one-credit course that provides students with continuing knowledge and skills regarding the applied science in mechanical, fluid, electrical, and thermal systems. This course addresses mechanical and fluid resistance, energy, power, force transformers, waves, vibrations, and light. The prerequisite for this course is Engineering Essentials.

- 220203 Fundamentals of Engineering I**
A one-credit course designed to provide students with a firm foundation in the basics of engineering. This course involves the practical application of scientific and mathematical principles of solving real world and/or simulated problems, communicating technical information, and providing education and training in current emerging technologies.
- 220204 Fundamentals of Engineering II**
A one-credit course that advances student involvement in the practical application of scientific and mathematical principles of solving real world and/or simulated problems, communicating technical information, and providing education and training in current and emerging technologies. The prerequisite for this course is Fundamentals of Engineering I.
- 220205 Introduction to Engineering**
A one-credit course providing students with an overview of the engineering profession and engineering technology skills to enhance student success. Students will investigate the various engineering disciplines and related career paths.
- 220206 Engineering Systems**
A one-credit course designed to explore the systems involved in the engineering research and design process. Topics include fluid, thermal, mechanical, and electrical systems. The prerequisite to this course is Introduction to Engineering.
- 220207 Engineering Technologies**
A one-credit course designed to explore the technologies involved in the engineering research and design process. Topics include construction, transportation, communication, and manufacturing technologies. The prerequisite to this course is Introduction to Engineering.
- 220208 Engineering Research and Design**
One-credit advanced course recommended for students in Grades 11-12. Students conduct research and/or design engineering projects; sharpen and expand their aptitude and interest through experiences in engineering. The prerequisite for this course is Introduction to Engineering or Fundamentals of Engineering I.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

- Secondary Certificate or Elementary-Secondary Certificate endorsed in career technologies/technology education (011), or technical education (025),
- Career/Technical Certificate (022, 045, 044, Grades 7-12), or Career/Technical Certificate (CT1, CT2, CT3, CT4, CT5, Grades 6-12) endorsed in technical education (025), or
- Special Alternative Certificate (Grades 6-12) endorsed in career technologies/technology education (011), or technical education (025), or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in career technologies/technology education (011), or technical education (025)

GRADES NINE THROUGH TWELVE

- Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in career technologies (011), or technical education (025)

SPECIAL EDUCATION
COURSES

ADAPTED PHYSICAL EDUCATION

650601 Adapted Physical Education

Exceptions to Subject and Personnel Codes:

Teachers who hold a valid certification in special education for the areas of collaborative teacher, emotional conflict, mental retardation, mild learning/behavior disabilities, multiple disabilities, mild learning disabilities, specific learning disabilities, orthopedically and other health impaired, speech and language impaired, hearing impaired, visually impaired, and deaf-blind may teach children in any disability area (Note: Gifted is not considered a disability area.) if they have the ability to implement individual student's individualized education program (IEP) in accordance with Individuals with Disabilities Education Act (IDEA). Refer to Hearing Impaired (650801), Visually Impaired (651001), and Speech and Language Impaired (651301) for specific requirements in these three areas. Children with autism and traumatic brain injury should be served by teachers certified in special education appropriate to the child's needs.

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Teachers employed after July 1, 1986, must be certified in physical education or special education, and have completed a minimum of twelve (12) semester or eighteen (18) quarter hours of coursework in Adapted Physical Education. The education agency must have on file written documentation from a university that the Adapted Physical Education teacher has successfully completed the required coursework.

ALL GRADES

Elementary-Secondary Certificate, or Secondary Certificate endorsed in health and physical education (009), or physical education, or recreation, or
Special Education Certificate endorsed in deaf/blind, or emotional conflict, or gifted, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or visually impaired, or
Special Alternative Certificate (Grades P-12) endorsed in physical education, or
Interim Certificate (Grades P-12) endorsed in physical education, or emotional conflict, or gifted, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or visually impaired

BIRTH THROUGH AGE FIVE

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
Early Childhood Special Education Certificate (Grades birth - age five), or
Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or
Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8)

PRIMARY GRADES

Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or
 Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
 Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4)

KINDERGARTEN OR ELEMENTARY GRADES

Elementary Multiple Abilities Certificate (Grades K-6) endorsed in mild learning/behavior disabilities, or
 Collaborative Teacher Certificate (Grades K-6), or
 Special Alternative Certificate (Grades K-6) endorsed in collaborative teacher, or
 Interim Certificate (Grades K-6) endorsed in mild learning/behavior disabilities, or as collaborative teacher

GRADES SIX THROUGH EIGHT

Alternative Baccalaureate Level Certificate (Grades 6-8) endorsed in physical education, or
 Collaborative Teacher Certificate (Grades 6-12), or
 Special Alternative Certificate (Grades 6-12) endorsed as collaborative teacher, or
 Interim Certificate (Grades 6-12) endorsed as collaborative teacher

GRADES NINE THROUGH TWELVE

Alternative Baccalaureate-Level Certificate (Grades 9-12) endorsed in physical education

EARLY CHILDHOOD SPECIAL EDUCATION

651501 Early Childhood Special Education**Exceptions to Subject and Personnel Codes:**

Teachers who hold a valid certification in special education for the areas of emotional conflict, mental retardation, mild learning/behavior disabilities, multiple disabilities, mild learning disabilities, specific learning disabilities, orthopedically and other health impaired, speech and language impaired, hearing impaired, visually impaired, and deaf-blind may teach children in any disability area (Note: Gifted is not considered a disability area.) if they have the ability to implement individual student's individualized education program (IEP) in accordance with Individuals with Disabilities Education Act (IDEA). Teachers who hold a valid certification in collaborative teacher (K-6) may teach children in any disability area K-3. Refer to Hearing Impaired (650801), Visually Impaired (651001), and Speech and Language Impaired (651301) for specific requirements in these three areas. Children with autism and traumatic brain injury should be served by teachers certified in special education appropriate to the child's needs.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

BIRTH THROUGH AGE FIVE

- Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
- Early Childhood Special Education Certificate (Grade birth - age five), or
- Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
- Interim Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8)

BIRTH THROUGH AGE EIGHT

- Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or
- Special Education Certificate endorsed in deaf/blind, or emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
- Elementary-Secondary Certificate, or Elementary Certificate (Grades 1-9), or Secondary Certificate endorsed in speech and language impaired, or speech correction, or speech therapy, or
- Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
- Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
- Interim Certificate (Grades P-12) endorsed in emotional conflict, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or specific learning disabilities, or speech and language impaired, or hearing impaired, or orthopedically and other health impaired, or visually impaired

KINDERGARTEN THROUGH AGE EIGHT

- Collaborative Teacher Certificate (Grades K-6), or
- Elementary Multiple Abilities Certificate (Grades K-6) endorsed in mild learning/behavior disabilities, or
- Special Alternative Certificate (Grades K-6) endorsed as collaborative teacher, or
- Interim Certificate (Grades K-6), endorsed as collaborative teacher, or in mild learning/behavior disabilities

GIFTED

650401 Gifted

IN-FIELD REQUIREMENTS
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Special Education Certificate endorsed in gifted, or
Special Alternative Certificate (Grades P-12) endorsed in gifted, or
Interim Certificate (Grades P-12) endorsed in gifted

HEARING IMPAIRED

650801 Hearing Impaired

Exceptions to Subject and Personnel Codes:

Teachers who hold a valid certification in special education for the areas of collaborative teacher, emotional conflict, mental retardation, mild learning/behavior disabilities, multiple disabilities, mild learning disabilities, specific learning disabilities, orthopedically and other health impaired, speech and language impaired, hearing impaired, visually impaired, and deaf-blind may teach children in any disability area (Note: Gifted is not considered a disability area.) if they have the ability to implement individual student's individualized education program (IEP) in accordance with Individuals with Disabilities Education Act (IDEA). Refer to Hearing Impaired (650801), Visually Impaired (651001), and Speech and Language Impaired (651301) for specific requirements in these three areas. Children with autism and traumatic brain injury should be served by teachers certified in special education appropriate to the child's needs.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

For the area of hearing impaired, teachers must hold a valid certificate in the teaching field in which they are assigned when instructing in the area of manual communication. Teachers certified in Early Childhood Special Education may not provide instruction in the area of manual communication.

ALL GRADES

Special Education Certificate endorsed in hearing impaired, or deaf/blind, or
Interim Certificate (Grades P-12) endorsed in hearing impaired

BIRTH THROUGH AGE FIVE

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten)
endorsed in early childhood special education (0J8), or
Early Childhood Special Education Certificate (Grades birth - age five), or
Special Education Certificate endorsed in early childhood special education (0J4,
Grades birth through age eight), or

Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4)

PRIMARY GRADES

Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or
Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4)

COLLABORATIVE SPECIAL EDUCATION

For Collaborative Special Education courses, SE stands for Special Education.

Consultative Services/Support Services

651602 Collaborative SE: Consultative Services/Support Services
This code applies to special education teachers consulting with/supporting general education teachers in classes/courses at the elementary level (grades K-6) or in classes/courses at the middle/secondary level (grades 7-12) leading to the awarding of the Alabama High School Diploma or the Alabama Occupational Diploma. These teachers do not have to meet the highly qualified teacher status. However, a special education teacher who provides only consultative services to a highly qualified general education teacher shall be considered a highly qualified special education teacher if the teacher meets the state's special education certification requirements for the grade level that he/she is teaching.

Core Academics

651603 SE: English Language Arts
This code applies to special education teachers (grades 7-12) teaching English language arts as a core academic subject leading to the awarding of the Alabama High School Diploma. These teachers must meet the highly qualified teacher status.

- 651604 SE: Mathematics**
This code applies to special education teachers (grades 7-12) teaching mathematics as a core academic subject leading to the awarding of the Alabama High School Diploma. These teachers must meet the highly qualified teacher status.
- 651605 SE: Science**
This code applies to special education teachers (grades 7-12) teaching science as a core academic subject leading to the awarding of the Alabama High School Diploma. These teachers must meet the highly qualified teacher status.
- 651606 SE: Social Studies**
This code applies to special education teachers (grades 7-12) teaching social studies as a core academic subject leading to the awarding of the Alabama High School Diploma. These teachers must meet the highly qualified teacher status.
- 651607 SE: Alternate Achievement Standards (Previously known as "Functional Life Skills")**
This code applies to special education teachers (grades K-12) teaching core academic subjects exclusively to students with the "most severe cognitive disabilities" who are assessed against alternate achievement standards (the Alabama Alternate Assessment) in classes/courses leading to the awarding of the Graduation Certificate. These teachers must meet one of the elementary options for highly qualified teacher.
- 651608 SE: Elementary**
This code applies to special education teachers teaching basic elementary curriculum in grades K-6. These teachers must meet the highly qualified teacher status.

Non-Core Academics

- 651609 SE: Basic Skills**
This code applies to special education teachers providing remediation to students with disabilities who have received their instruction on core academic subjects from a general education teacher. These teachers do not have to meet the highly qualified teacher status.
- 651610 Transition Services**
This code applies to special education teachers teaching school-to-work transition skills and/or school/community-based instruction. These teachers do not have to meet the highly qualified teacher status.
- 651611 Strategies Lab**
This code applies to special education teachers providing direct instruction in specific learning, behavioral, and/or social strategies that target specific setting demands of general education classes in which they are enrolled. Instructional time is also used, on a limited basis, to support general education class content learning. These teachers do not have to meet the highly qualified teacher status.

Exceptions to Subject and Personnel Codes:

Teachers who hold a valid certification in special education for the areas of collaborative teacher, emotional conflict, mental retardation, mild learning/behavior disabilities, multiple disabilities, mild learning disabilities, specific learning disabilities, orthopedically and other health impaired, speech and language impaired, hearing impaired, visually impaired, and deaf-blind may teach children in any disability area (Note: Gifted is not considered a disability area.) if they have the ability to implement individual student's individualized education program (IEP) in accordance with Individuals with Disabilities Education Act (IDEA). Refer to Hearing Impaired (650801), Visually Impaired (651001), and Speech and Language Impaired (651301) for specific requirements in these three areas. Children with autism and traumatic brain injury should be served by teachers certified in special education appropriate to the child's needs.

**IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS**

ALL GRADES

Special Education Certificate endorsed in orthopedically and other health impaired, or mild learning/behavior disabilities, or mentally retarded, or mild learning disabilities, or specific learning disabilities, or speech and language impaired, or emotional conflict, or hearing impaired, or visually impaired, or deaf/blind, or multiple disabilities, or

Interim Certificate (Grades P-12) endorsed in orthopedically and other health impaired, or mild learning/behavior disabilities, or mentally retarded, or mild learning disabilities, or specific learning disabilities, or speech and language impaired, or emotional conflict, or hearing impaired, or visually impaired, or deaf/blind, or multiple disabilities

BIRTH THROUGH AGE FIVE

Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or

Early Childhood Special Education Certificate (Grades birth - age five), or
Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or

Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or

Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or

Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4), or

Interim Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8)

PRIMARY GRADES

Special Education Certificate endorsed in early childhood special education (0J4, Grades P-3), or

Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or

Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4)

KINDERGARTEN OR ELEMENTARY GRADES

Elementary Multiple Abilities Certificate (Grades K-6) endorsed in mild learning/behavior disabilities, or
Collaborative Teacher Certificate (Grades K-6), or
Special Alternative Certificate (Grades K-6) endorsed as collaborative teacher, or
Interim Certificate (Grades K-6) endorsed in mild learning/behavior disabilities, or
as collaborative teacher

GRADES SIX THROUGH EIGHT

Collaborative Teacher Certificate (Grades 6-12), or
Special Alternative Certificate (Grades 6-12) endorsed as collaborative teacher,
or
Interim Certificate (Grades 6-12) endorsed as collaborative teacher

JUNIOR HIGH OR HIGH SCHOOL GRADES

Collaborative Teacher Certificate (Grades 6-12), or
Special Alternative Certificate (Grades 6-12) endorsed as collaborative teacher,
or
Interim Certificate (Grades 6-12) endorsed as collaborative teacher

SPEECH AND LANGUAGE IMPAIRED

651301 Speech and Language Impaired

Exceptions to Subject and Personnel Codes:

Teachers who hold a valid certification in special education for the areas of collaborative teacher, emotional conflict, mental retardation, mild learning/behavior disabilities, multiple disabilities, mild learning disabilities, specific learning disabilities, orthopedically and other health impaired, speech and language impaired, hearing impaired, visually impaired, and deaf-blind may teach children in any disability area (Note: Gifted is not considered a disability area.) if they have the ability to implement individual student's individualized education program (IEP) in accordance with Individuals with Disabilities Education Act (IDEA). Refer to Hearing Impaired (650801), Visually Impaired (651001), and Speech and Language Impaired (651301) for specific requirements in these three areas. Children with autism and traumatic brain injury should be served by teachers certified in special education appropriate to the child's needs.

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

For the area of speech/language impaired, teachers must hold a valid certificate in the teaching field in which they are assigned when instructing in the speech areas of articulation, voice, and fluency. Teachers certified in Early Childhood Special Education may only provide services in the area of language instruction. They may not provide instruction in articulation, voice, and fluency.

ALL GRADES

Special Education Certificate endorsed in speech and language impaired, or
Elementary-Secondary Certificate, or Elementary Certificate (Grades 1-9), or
Secondary Certificate endorsed in speech and language impaired, or
speech correction, or speech therapy, or
Preliminary Certificate (Grades P-12) endorsed in speech and language
impaired, or
Interim Certificate (Grades P-12) endorsed in speech and language impaired

BIRTH THROUGH AGE FIVE

- Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
- Early Childhood Special Education Certificate (Grades birth - age five), or
- Special Education Certificate endorsed in early childhood special education (0J4, Grades P-3), or
- Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
- Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
- Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
- Interim Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8)

PRIMARY GRADES

- Special Education Certificate endorsed in early childhood special education (0J4, Grades P-3), or
- Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
- Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4)

VISUALLY IMPAIRED

651001 Visually Impaired**Exceptions to Subject and Personnel Codes:**

Teachers who hold a valid certification in special education for the areas of collaborative teacher, emotional conflict, mental retardation, mild learning/behavior disabilities, multiple disabilities, mild learning disabilities, specific learning disabilities, orthopedically and other health impaired, speech and language impaired, hearing impaired, visually impaired, and deaf-blind may teach children in any disability area (Note: Gifted is not considered a disability area.) if they have the ability to implement individual student's individualized education program (IEP) in accordance with Individuals with Disabilities Education Act (IDEA). Refer to Hearing Impaired (650801), Visually Impaired (651001), and Speech and Language Impaired (651301) for specific requirements in these three areas. Children with autism and traumatic brain injury should be served by teachers certified in special education appropriate to the child's needs.

**IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS**

For the area of visually impaired, teachers must hold a valid certificate in the teaching field in which they are assigned (when instructing in the area of Braille). Teachers certified in Early Childhood Special Education may not provide instruction in the area of Braille.

ALL GRADES

- Special Education Certificate endorsed in deaf/blind, or visually impaired, or
- Interim Certificate (Grades P-12) endorsed in visually impaired

BIRTH THROUGH AGE FIVE

- Early Childhood Multiple Abilities Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
- Early Childhood Special Education Certificate (Grades birth - age five), or

Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or
Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Special Alternative Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8), or
Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Interim Certificate (Grades birth - kindergarten) endorsed in early childhood special education (0J8)

PRIMARY GRADES

Special Education Certificate endorsed in early childhood special education (0J4, Grades birth through age eight), or
Special Alternative Certificate (Grades P-3) endorsed in early childhood special education (0J4), or
Interim Certificate (Grades P-3) endorsed in early childhood special education (0J4)

ALABAMA

OCCUPATIONAL DIPLOMA

SUBJECT CODES

ENGLISH LANGUAGE ARTS

For the Alabama Occupational Diploma English language arts courses, LS stands for Life Skills.

- 652101 LS I: English**
This is a 9th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.
- 652102 LS II: English**
This is a 10th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.
- 652103 LS III: English**
This is an 11th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.
- 652204 LS IV: English**
This is a 12th grade course designed to provide a practical knowledge of reading, literature, writing and language, research and inquiry, and oral and visual communication.

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES NINE THROUGH TWELVE

- Special Education Certificate endorsed in deaf and blind, or emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
- Collaborative Teacher Certificate, or
- Elementary-Secondary Certificate endorsed in reading, or
- Reading Specialist Certificate, or
- Secondary Certificate endorsed in English, or language arts, or English language arts, or
- Alternative Baccalaureate Level Certificate (Grades 9-12) endorsed in English language arts, or
- Interim Certificate (Grades P-12) endorsed in emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
- Interim Certificate (Grades K-6 or 6-12) endorsed in collaborative teacher, or
- Interim Certificate (Grades P-12) endorsed in reading, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in English, or language arts, or English language arts, or
- Special Alternative Certificate (Grades K-6) endorsed in collaborative teacher, or
- Special Alternative Certificate (Grades 6-12) endorsed in English, or language arts, or English language arts, or collaborative teacher

MATHEMATICS

The Alabama Occupational Diploma math courses provide students with the foundation skills identified in the general education math courses. The courses include functional math concepts to equip students with skills necessary for employment and independent living.

- 653211 Essential Mathematics I**
Provides students with the opportunity to learn basic operations involving whole numbers, fractions, and consumer skills such as computing change and check writing skills.
- 653212 Essential Mathematics II**
Provides students with the opportunity to learn basic operations involving decimals, percents, laws of exponents, and consumer skills such as reconciling bank statements and computing pay rates.
- 653213 Algebraic Explorations I**
Provides students with the opportunity to learn basic operations involving integers and numerical expressions, and consumer skills such as calculating taxes and measurement of surface areas.
- 653214 Algebraic Explorations II**
Provides students with the opportunity to learn basic algebraic concepts including graphing and analyzing linear equations and consumer skills such as budgets, loans, credit purchases, and measurements.

IN-FIELD REQUIREMENTS: CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES NINE THROUGH TWELVE

Special Education Certificate endorsed in deaf and blind, or emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
Collaborative Teacher Certificate, or
Secondary Certificate endorsed in mathematics, or
Alternative Baccalaureate Level Certificate (Grades 9-12) endorsed in mathematics, or
Interim Certificate (Grades P-12) endorsed in emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
Interim Certificate (Grades K-6 or 6-12) endorsed in collaborative teacher, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in mathematics, or
Special Alternative Certificate (Grades K-6) endorsed in collaborative teacher, or
Special Alternative Certificate (Grades 6-12) endorsed in mathematics, or
collaborative teacher

SCIENCE

For the Alabama Occupational Diploma science courses, LS stands for Life Skills.

- 654101 LS I: Physical Science**
This course is designed to provide students with practical knowledge of Physical Science including scientific process and application skills; periodic table; solutions; bonding; chemical formulas; physical and chemical change; gravitational, electromagnetic, and nuclear forces; motion; energy; energy transformation; electricity and magnetism; nuclear science; metric units.
- 654102 LS II: Biology**
This course is designed to provide students with practical knowledge of Biology including process and application skills; cell processes; cell theory; photosynthesis and cellular respiration; genetics; classification; plants; animals; ecology; biogeochemical cycles.
- 654103 LS III: Earth and Space Science**
This course is designed to provide students with practical knowledge of Earth and Space Science including scientific process and application skills; energy in the Earth system; weather; seasons; theories for origin and age of the universe; stars, pulsars, quasars, black holes, and galaxies; Earth and space scientists; space exploration.
- 654204 LS IV: Environmental Science**
This course is designed to provide students with a practical knowledge of Environmental Science including scientific process and application skills; natural and human impacts; carrying capacity; renewable and nonrenewable energy resources; properties and importance of water; land use practices; composition and erosion of soil.
- 654206 LS: Genetics**
This course is designed to provide students with the biological basis of genetics. Scientific process and application skills; genetic principles; molecular and cellular foundations: heredity; mutation; genetic techniques; bioethics; Human Genome Project.
- 654208 LS: Human Anatomy and Physiology**
This course is designed to provide students with a practical knowledge of Human Anatomy and Physiology including scientific process and application skills; anatomical terminology; structure and function of cells, tissues, and body systems; biochemistry; system regulation and integration.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES NINE THROUGH TWELVE

- Special Education Certificate endorsed in deaf and blind, or emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
- Collaborative Teacher Certificate, or
- Secondary Certificate endorsed in general science, or biology, or chemistry, or physics, or physical science, or geology, or earth and space science, or biology and chemistry (OD6), or
- Alternative Baccalaureate Level Certificate (Grades 9-12) endorsed in general science, or biology, or chemistry, or physics, or
- Interim Certificate (Grades P-12) endorsed in emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
- Interim Certificate (Grades K-6 or 6-12) endorsed in collaborative teacher, or
- Interim Certificate (Grades 6-12 or 7-12) endorsed in general science, or chemistry, or physics, or earth and space science, or biology, or
- Special Alternative Certificate (Grades K-6) endorsed in collaborative teacher, or
- Special Alternative Certificate (Grades 6-12) endorsed in general science, or biology, or chemistry, or physics, or collaborative teacher

SOCIAL STUDIES

For the Alabama Occupational Diploma social studies courses, LS stands for Life Skills.

- 655205 LS I: World History**
This course is a study of world history from 1500 to the present. Students are able to apply and utilize their knowledge to develop informed opinions about issues such as the quest for peace, human rights, trade, global ecology and the impact each has on everyday life situations.
- 655206 LS II: U.S. History to 1877**
This course follows a chronological study of major events, issues, movements, leaders, and groups of people of the United States through Reconstruction from a national and Alabama perspective.
- 655207 LS III: U.S. History from 1877**
This course begins with the post-Reconstruction United States and its shift into a more industrialized society and continues through the twentieth century to the present.
- 655208 LS IV: Economics**
This course is a one-semester course that focuses on the functions and institutions of modern-day economic systems and theory. Students gain skills that will enable them to anticipate changes in economic conditions and how to adjust to the changes to improve their lives and their communities.

655209 LS IV: U.S. Government

This course is a one-semester course that focuses on the origins, structure, and functions of government at all levels. It also includes a detailed study of the constitution of the United States and its provisions.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

GRADES NINE THROUGH TWELVE

Special Education Certificate endorsed in deaf and blind, or emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
Collaborative Teacher Certificate, or
Secondary Certificate endorsed in general social science (022), or history, or political science, or sociology, or economics, or geography, or psychology, or political science and sociology (049), or anthropology, or
Alternative Baccalaureate Level Certificate (Grades 9-12) endorsed in general social science (022), or history, or geography, or
Interim Certificate (Grades P-12) endorsed in emotional conflict, or hearing impaired, or mentally retarded, or mild learning disabilities, or mild learning/behavior disabilities, or multiple disabilities, or orthopedically and other health impaired, or specific learning disabilities, or speech and language impaired, or visually impaired, or
Interim Certificate (Grades K-6 or 6-12) endorsed in collaborative teacher, or
Interim Certificate (Grades 6-12 or 7-12) endorsed in general social science (022), or economics, or geography, or history, or political science, or psychology, or sociology, or
Special Alternative Certificate (Grades K-6) endorsed in collaborative teacher, or
Special Alternative Certificate (Grades 6-12) endorsed in general social science (022), or history, or geography, or political science, or collaborative teacher

SPECIAL ASSIGNMENTS

SPECIAL ASSIGNMENTS

090441 Yearbook Production 1
Producing a publication; format; layout; photographs; yearbook design

090442 Yearbook Production 2
Senior staff positions; financial management; yearbook publication

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

JUNIOR HIGH GRADES OR HIGH SCHOOL GRADES

Any Professional Educator Certificate

320100 Basic Skills
Remediation

320105 Homebound--Regular Classroom
Teaching academic subjects to students who are unable to attend regular classes

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any Professional Educator Certificate

990010 Study Hall
Supervising student independent study

990020 Planning Period
Planning for student instruction

990030 Supervision, Student Extracurricular Activities
Supervising student non-credit activities such as yearbook, school newspaper, class play, etc.

990100 Other Special Non-Academic Assignments
Supervising non-academic student activities such as lunchroom, play yard, etc.

990130 Supervision, Distance Learning
Supervising students who are receiving instruction through distance learning.

990150 Other Special Academic Assignments
Teaching special subjects offered for academic enrichment.

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any Professional Educator Certificate

990300 Teacher Leader

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

Teacher Leader Certificate (108). Individuals holding the valid Class AA Teacher Leader Professional Certificate may serve as teacher leader only in the teaching field(s) and at the grade level(s) for which a valid Alabama certificate is held.

**ALABAMA READING INITIATIVE (ARI) AND
ALABAMA READING FIRST INITIATIVE (ARFI)**

**990400 Building Reading Coach
990500 Regional Reading Coach**

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Any Professional Educator Certificate AND successful completion of ARI (Alabama Reading Initiative) training or ARFI (Alabama Reading First Initiative) training or prior approval by the State Department of Education

990600 Regional Principal Coach

IN-FIELD REQUIREMENTS:
CERTIFICATES, ENDORSEMENTS AND GRADE LEVELS

ALL GRADES

Successful completion of ARI (Alabama Reading Initiative) training or ARFI (Alabama Reading First Initiative) training or prior approval by the State Department of Education, AND
Superintendent-Principal Certificate, or
Educational Administrator Certificate, or
Instructional Leader Certificate, or
Principal Certificate, or
Superintendent Certificate

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520522	Marketing Innovations (one-half credit)	100
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APPENDIX A

**ALABAMA TEACHERS' CERTIFICATES
CURRENT AREAS OF ENDORSEMENT**

001	Visual Arts (previously Art)	0D1	Agriscience Education
006	English	0D4	Dramatic Arts
007	French	0E0	School Counselor
008	German	0E8	Russian
009	Health and Physical Education	0G0	School Psychologist
00K	Early Childhood Education (Kindergarten)	0G3	Driver and Traffic Safety Education
010	Family and Consumer Sciences Education	0G6	Visually Impaired
011	Career Technologies (previously Industrial Arts/Technology Education)	0G7	Reading
012	Journalism	0G8	Marketing Education
013	Latin	0H1	Hearing Impaired
015	Mathematics	0H3	Emotional Conflict
019	General Music	0H5	Early Childhood Education (P-Grade 3)
020	Recreation	0H6	Library-Media
021	General Science	0H7	Speech and Language Impaired
022	General Social Science (previously Social Science)	0H8	Specific Learning Disabilities
023	Spanish	0H9	Health Education
024	Speech	0J0	Adult Education
025	Technical Education (previously Trade and Industrial Education)	0J3	Gifted
028	Biology	0J4	Early Childhood Special Education (Birth through age 8) (previously P-Grade 3)
029	Chemistry	0J7	Supervisor of Special Education
030	Physics	0J8	Early Childhood Special Education (Birth-Age 5)
031	Physical Science	0K2	Health Science (previously Healthcare Science and Technology)
032	Earth and Space Science	0L3	Dance
033	School Psychometrist	0L5	Theatre
035	Supervisor of Instruction	0L7	Environmental Education
040	History	0L9	Business/Marketing Education
041	Political Science	0M4	Speech Communication/Theatre
042	Sociology	0M5	Multiple Disabilities
043	Economics	0N1	Elementary Education (1-6)
044	Geography	0N7	Japanese
067	Language Arts	0N8	American Sign Language
070	Business Education	0N9	Sport Manager
081	Greek	0XD	Collaborative Teacher
090	English as a Second Language (changing to English for Speakers of Other Languages)	0X0	Orthopedically and Other Health Impaired
0A0	Vocal/Choral Music (changing to Choral Music)	0X1	Mild Learning/Behavior Disabilities
0A1	Instrumental Music	0X5	Psychology
0A3	Generalist (4-8)	0X7	Mentally Retarded
0B1	Chinese	0X9	Mild Learning Disabilities
0B6	Physical Education	67A	English Language Arts
0BK	Early Childhood Education (Birth- Kindergarten)	81L	Instructional Leader
0C0	Italian	81P	Educational Administrator

**ALABAMA TEACHERS' CERTIFICATES
CURRENT SECONDARY
TEACHING FIELDS**

0D1	Agriscience Education	0N7	Japanese
0N8	American Sign Language	012	Journalism
028	Biology	067	Language Arts
070	Business Education	013	Latin
0L9	Business/Marketing Education	0G8	Marketing Education
011	Career Technologies (previously Industrial Arts/Technology Education)	015	Mathematics
029	Chemistry	019	Music, General
0B1	Chinese	0A1	Music, Instrumental
0D4	Dramatic Arts	0A0	Music, Vocal/Choral (changing to Choral Music)
0G3	Driver and Traffic Safety Education	0B6	Physical Education
032	Earth and Space Science	031	Physical Science
043	Economics	030	Physics
006	English	041	Political Science
67A	English Language Arts	0X5	Psychology
0L7	Environmental Education	020	Recreation
010	Family and Consumer Sciences Education	0E8	Russian
007	French	042	Sociology
021	General Science	023	Spanish
022	General Social Science (previously Social Science)	024	Speech
044	Geography	0M4	Speech Communication/Theatre
008	German	025	Technical Education (previously Trade and Industrial Education)
081	Greek	001	Visual Arts (previously Art)
009	Health and Physical Education		
0H9	Health Education		
0K2	Health Science (previously Healthcare Science and Technology)		
040	History		
0C0	Italian		

**ALABAMA TEACHERS' CERTIFICATES
CURRENT MIDDLE SCHOOL
TEACHING FIELDS**

0D1	Agriscience Education	0C0	Italian
028	Biology	0N7	Japanese
070	Business Education	012	Journalism
011	Career Technologies (previously Industrial Arts/Technology Education)	067	Language Arts
029	Chemistry	013	Latin
0B1	Chinese	0G8	Marketing Education
032	Earth and Space Science	015	Mathematics
043	Economics	0A1	Music, Instrumental
006	English	0A0	Music, Vocal/Choral (changing to Choral Music)
67A	English Language Arts	0B6	Physical Education
010	Family and Consumer Sciences Education	030	Physics
007	French	041	Political Science
021	General Science	0X5	Psychology
022	General Social Science (previously Social Science)	0E8	Russian
0A3	Generalist	042	Sociology
044	Geography	023	Spanish
008	German	0M4	Speech Communication/Theatre
081	Greek	001	Visual Arts (previously Art)
0H9	Health Education		
040	History		

**ALABAMA TEACHERS' CERTIFICATES
CURRENT ELEMENTARY-SECONDARY
TEACHING FIELDS**

0J0	Adult Education
0N8	American Sign Language
011	Career Technologies (previously Industrial Arts/Technology Education)
0B1	Chinese
0L3	Dance
090	English as a Second Language (changing to English for Speakers of Other Languages)
007	French
008	German
081	Greek
009	Health and Physical Education
0H9	Health Education
0C0	Italian
0N7	Japanese
013	Latin
019	Music, General
0A1	Music, Instrumental
0A0	Music, Vocal/Choral (changing to Choral Music)
0B6	Physical Education
0G7	Reading
0E8	Russian
023	Spanish
024	Speech
0M4	Speech Communication/Theatre
0L5	Theatre
001	Visual Arts (previously Art)

**ALABAMA TEACHERS' CERTIFICATES
CURRENT SPECIAL EDUCATION
TEACHING FIELDS**

	Collaborative Teacher, K-6 (certificate types 47D, 48D, 49D)
	Collaborative Teacher, 6-12 (certificate types 47E, 48E, 49E)
0J8	Early Childhood Special Education (Birth-Age Five)
0J4	Early Childhood Special Education (Birth through age 8) (previously P-Grade 3)
0H3	Emotional Conflict
0J3	Gifted
0H1	Hearing Impaired
0X7	Mentally Retarded
0X1	Mild Learning/Behavior Disabilities
0X9	Mild Learning Disabilities
0M5	Multiple Disabilities
0X0	Orthopedically and Other Health Impaired
0H8	Specific Learning Disabilities
0H7	Speech and Language Impaired
0G6	Visually Impaired

**ALABAMA TEACHERS' CERTIFICATES
EXPLANATION CODES**

(NOT PLACED ON CERTIFICATES ISSUED OR RENEWED AFTER NOVEMBER 3, 1992)

0F3	To Teach Art (001) P-12
0F4	To Teach Health/Physical Education (009) P-12
0F5	To Teach Industrial Arts (011) P-12
0F6	To Serve as Counselor (0E0) P-12
0F7	To Serve as Librarian (014) P-12
0F8	To Teach General Music (019) P-12
0F9	To Teach Speech (024) P-12
0G0	To Serve as a School Psychologist
0G1	To Serve as Superintendent/Principal
0G2	To Serve as Speech Correctionist (072) P-12
0G5	To Teach ROTC
0H5	To Teach K-3
0J1	To Teach Reading (0G7) P-12
0J2	To Teach Foreign Language (082) P-12
0J5	To Serve as Media Specialist (0H6) P-12
0K3	To Teach Health Education (0H9) P-12
0M1	To Serve as Adult Education Teacher (0J0) P-12
0M2	Administrator of Career/Technical Education
0M7	Supervisor of Subject Area
0Q1	To Teach French (007) P-12
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0Q4	To Teach Russian (0E8) P-12
0Q5	To Teach Spanish (023) P-12
0Q6	To Teach Japanese (0N7) P-12
0X2	To Teach 1-9
0X6	To Serve as a Speech Therapist (0D2) P-12
0XX	Not Subject to Reinstatement

**ALABAMA TEACHERS' CERTIFICATES
AREAS NO LONGER ENDORSED ON NEW CERTIFICATES**

002	Agriculture	0A4	Piano, Organ and Music
003	Band	0A6	Mechanical Drawing and Manual Training
004	Commercial Industries	0A7	Manual Training
005	Commercial Subjects	0A8	Music, Piano, Band and Orchestra
014	Library Science	0B7	Industrial Subjects
016	Orchestra	0C1	Vocational Electricity
018	Piano	0C5	Shoemaking and Auto Trimming
026	Violin	0C6	Music and Band
027	Voice	0C8	Sewing
036	Supervisor of School Attendance	0C9	Penmanship
045	History and Political Science	0D0	Vocational Home Economics
047	History and Economics	0D2	Speech Therapy
048	History and Geography	0D3	Vocational Trades and Industries
049	Political Science and Sociology	0D5	General Homemaking
050	Political Science and Economics	0D6	Biological Science and Chemistry
051	Political Science and Geography	0D7	Biological Science andysics
052	Sociology and Economics	0D9	Physical Disabilities
055	History, Political Science, and Sociology	0E1	Physics and Biological Science
056	History, Political Science and Economics	0E2	Instrumental and Vocal Music
057	History, Political Science and Geography	0E3	Radio and Television
060	History, Economics and Geography	0E5	Mechanical Arts
061	Political Science, Sociology and Economics	0E6	School Nursing
062	Political Science, Economics and Geography	0E9	Journalism, Radio, and Television
063	Political Science, Sociology and Geography	0F0	To Supervise Transportation in City and County Systems of Schools
064	Sociology, Economics and Geography	0G4	Anthropology
065	History, Sociology, Economics and Geography	0H0	Nursery and Family Living
066	Principal	0H2	Philosophy
068	Band, Orchestra and Music	0H4	Rehabilitation
069	Superintendent	0J6	Deaf-Blind
071	Music and Piano	0K1	Vocational Education
072	Speech Correction	0K4	Technical Education Teacher- Coordinator
073	Political Science, Sociology, Economics and Geography	0K5	Marketing Education Teacher- Coordinator
074	History, Political Science, Sociology and Economics	0K6	Healthcare Science and Technology Education/Health Science Teacher-Coordinator
075	History, Political Science, Sociology and Geography	0K7	Business Education Teacher - Coordinator
076	History, Political Science, Economics and Geography	0K8	Family and Consumer Sciences Education Teacher-Coordinator
078	Business Administration	0K9	Agriscience Education Teacher-Coordinator
079	Modern Languages	0M6	Supervisor of School Food and Nutrition
082	Foreign Language	0M8	Supervisor, Career/Technical Education
083	History and Social Science	0N2	Coach
085	Music and Orchestra	0N3	Coach Trainer
086	Geology	0N4	Sports Trainer
087	Music and Violin	0N5	Physical Education (P-12)
089	Teacher of the Blind	0N6	Emotionally Conflicted (7-12)
088	Teacher of the Deaf	0X3	Geography and Biological Science
092	Accounting	0X8	Biological Science and Geology
093	Voice and Music		
094	Piano and Voice		
096	Music, Voice and Piano		

**ALABAMA TEACHERS' CERTIFICATES
CURRENT TYPES AND LEVELS OF CERTIFICATES**

<u>Type</u>	<u>Certificate and Grade Levels</u>	<u>Class</u>
002	Supervisor (P-12)	A
006	Secondary (7-12)	A
06A	Secondary (6-12)	A
009	Elementary-Secondary (P-12)	A
016	Secondary (7-12)	B
16A	Secondary (6-12)	B
020	Elementary-Secondary (P-12)	B
036	Secondary (7-12)	AA
36A	Secondary (6-12)	AA
037	Elementary-Secondary (P-12)	AA
039	Supervisor (P-12)	AA
040	Music (P-8)	B
041	Music (P-8)	A
043	Music (P-8)	AA
047	*Special Education (P-12)	A
47D	Collaborative Teacher (K-6)	A
47E	Collaborative Teacher (6-12)	A
47H	Special Education (Birth through age 8) (previously P-Grade 3)	A
47K	Early Childhood Special Education (Birth-Age 5)	A
048	*Special Education (P-12)	B
48D	Collaborative Teacher (K-6)	B
48E	Collaborative Teacher (6-12)	B
48H	Special Education (Birth through age 8) (previously P-Grade 3)	B
48K	Early Childhood Special Education (Birth-Age 5)	B
049	*Special Education (P-12)	AA
*EXCEPTION: An endorsement in early childhood special education (0J4) on these certificates is for Birth through age 8 (previously P-Grade 3).		
49D	Collaborative Teacher (K-6)	AA
49E	Collaborative Teacher (6-12)	AA
49H	Special Education (Birth through age 8) (previously P-Grade 3)	AA
49K	Early Childhood Special Education (Birth-Age 5)	AA
050	School Counselor (P-12)	A
052	School Counselor (P-12)	AA
053	School Psychologist (P-12)	A
054	School Psychologist (P-12)	AA
055	ROTC (7-12)	-
056	Early Childhood (P-3)	B
56A	Early Childhood Multiple Abilities (Birth-Age 5)	B
057	Early Childhood (P-3)	A
57A	Early Childhood Multiple Abilities (Birth-Age 5)	A
058	Early Childhood (P-3)	AA
063	Supervisor of Instruction (1-6)	A
064	Supervisor of Instruction (1-6)	AA
066	Supervisor of Instruction (7-12)	A
067	Supervisor of Instruction (7-12)	AA
073	Reading Teacher (1-6)	A
074	Reading Teacher (1-6)	AA
075	Elementary (1-6)	B
75A	Elementary (K-6)	B
75C	Elementary Multiple Abilities (K-6)	B

CURRENT TYPES AND LEVELS OF CERTIFICATES

<u>Type</u>	<u>Certificate and Grade Levels</u>	<u>Class</u>
076	Elementary (1-6)	A
76A	Elementary (K-6)	A
76C	Elementary Multiple Abilities (K-6)	A
077	Elementary (1-6)	AA
77A	Elementary (K-6)	AA
078	Middle School (4-8)	B
079	Middle School (4-8)	A
080	Middle School (4-8)	AA
081	Educational Administrator (P-12)	A
082	Educational Administrator (P-12)	AA
087	School Psychometrist (P-12)	A
088	Principal (P-6)	A
089	Principal (P-6)	AA
090	Principal (P-12)	A
091	Principal (P-12)	AA
092	Principal (7-12)	A
093	Principal (7-12)	AA
094	Superintendent (P-12)	A
095	Superintendent (P-12)	AA
096	Administrator of Career/Technical Education (7-12)	A
097	Administrator of Career/Technical Education (7-12)	AA
098	School Psychometrist (P-12)	AA
101	School Library-Media Specialist (P-12)	A
102	School Library-Media Specialist (P-12)	AA
106	Reading Specialist (P-12)	A
108	Teacher Leader	AA
109	Sport Management (P-12)	A
210	Instructional Leader (P-12)	A
214	Practicing Instructional Leader (P-12)	A
AB1	First Alternative Baccalaureate-Level (K-8)	-
AB2	Second Alternative Baccalaureate-Level (K-8)	-
AB3	Third Alternative Baccalaureate-Level (K-8)	-
AB4	First Alternative Baccalaureate-Level (9-12)	-
AB5	Second Alternative Baccalaureate-Level (9-12)	-
AB6	Third Alternative Baccalaureate-Level (9-12)	-
AB7	First Alternative Baccalaureate-Level (6-8)	-
AB8	Second Alternative Baccalaureate-Level (6-8)	-
AB9	Third Alternative Baccalaureate-Level (6-8)	-
ABA	First Alternative Baccalaureate-Level (6-12)	-
ABB	Second Alternative Baccalaureate-Level (6-12)	-
ABC	Third Alternative Baccalaureate-Level (6-12)	-
CNP	Child Nutrition Program Director (CNP)	-
CT1	**Career/Technical, Level 1 (6-12) (Technical Education)	-
CT2	**Career/Technical, Level 2 (6-12) (Technical Education)	-
CT3	Career/Technical, Level 3 (6-12) (Technical Education)	-
CT4	Career/Technical, Level 4 (6-12) (Technical Education)	-
CT5	Career/Technical, Level 5 (6-12) (Technical Education)	-
CTH	**Career/Technical, Level 1 (6-12) (Health Science)	-
CT6	**Career/Technical, Level 2 (6-12) (Health Science)	-
CT7	**Career/Technical, Level 3 (6-12) (Health Science)	-

**** Cannot be continued or reinstated**

List No. 8	CURRENT TYPES AND LEVELS OF CERTIFICATES	Appendix A May 2008
<u>Type</u>	<u>Certificate and Grade Levels</u>	<u>Class/Degree</u>
CT8	Career/Technical, Level 4 (6-12) (Health Science)	-
CT9	Career/Technical, Level 5 (6-12) (Health Science)	-
EAP	Educational Administrator (P-12)	B
EM2	Emergency Certificate	-
IA1	Interim Certificate (P-12)	B
IA2	Interim Certificate (P-12)	A
IA3	Interim Certificate (P-12)	AA
IB1	Interim Certificate (K-6)	B
IB2	Interim Certificate (K-6)	A
IB3	Interim Certificate (K-6)	AA
IC1	Interim Certificate (6-12)	B
IC2	Interim Certificate (6-12)	A
IC3	Interim Certificate (6-12)	AA
ID1	Interim Certificate (4-8)	B
ID2	Interim Certificate (4-8)	A
ID3	Interim Certificate (4-8)	AA
IF1	Interim Certificate (P-3)	B
IF2	Interim Certificate (P-3)	A
IF3	Interim Certificate (P-3)	AA
IG1	Interim Certificate (1-6)	B
IG2	Interim Certificate (1-6)	A
IG3	Interim Certificate (1-6)	AA
IH1	Interim Certificate (7-12)	B
IH2	Interim Certificate (7-12)	A
IH3	Interim Certificate (7-12)	AA
IJ1	Interim Certificate (B-K)	B
IJ2	Interim Certificate (B-K)	A
IJ3	Interim Certificate (B-K)	AA
IK1	Interim Certificate (P-6)	B
IK2	Interim Certificate (P-6)	A
IK3	Interim Certificate (P-6)	AA
PA1	First Preliminary Certificate (P-12) (valid 2 scholastic years)	BS
P1A	First Preliminary Certificate (P-12) (valid 1 scholastic year)	BS
PA2	Second Preliminary Certificate (P-12)	BS
PAA	Third Preliminary Certificate (P-12)	BS
PA3	First Preliminary Certificate (P-12) (valid 2 scholastic years)	MS
P3A	First Preliminary Certificate (P-12) (valid 1 scholastic year)	MS
PA4	Second Preliminary Certificate (P-12)	MS
PAB	Third Preliminary Certificate (P-12)	MS
PA5	First Preliminary Certificate (P-12) (valid 2 scholastic years)	EdS
P5A	First Preliminary Certificate (P-12) (valid 1 scholastic year)	EdS
PA6	Second Preliminary Certificate (P-12)	EdS
PAC	Third Preliminary Certificate (P-12)	EdS
PB1	First Preliminary Certificate (K-6) (valid 2 scholastic years)	BS
P1B	First Preliminary Certificate (K-6) (valid 1 scholastic year)	BS
PB2	Second Preliminary Certificate (K-6)	BS
PBA	Third Preliminary Certificate (K-6)	BS
PB3	First Preliminary Certificate (K-6) (valid 2 scholastic years)	MS
P3B	First Preliminary Certificate (K-6) (valid 1 scholastic year)	MS
PB4	Second Preliminary Certificate (K-6)	MS
PBB	Third Preliminary Certificate (K-6)	MS
PB5	First Preliminary Certificate (K-6) (valid 2 scholastic years)	EdS
P5B	First Preliminary Certificate (K-6) (valid 1 scholastic year)	EdS
PB6	Second Preliminary Certificate (K-6)	EdS
PBC	Third Preliminary Certificate (K-6)	EdS
PC1	First Preliminary Certificate (6-12) (valid 2 scholastic years)	BS
P1C	First Preliminary Certificate (6-12) (valid 1 scholastic year)	BS

CURRENT TYPES AND LEVELS OF CERTIFICATES

<u>Type</u>	<u>Certificate and Grade Levels</u>	<u>Class/Degree</u>
PC2	Second Preliminary Certificate (6-12)	BS
PCA	Third Preliminary Certificate (6-12)	BS
PC3	First Preliminary Certificate (6-12) (valid 2 scholastic years)	MS
P3C	First Preliminary Certificate (6-12) (valid 1 scholastic year)	MS
PC4	Second Preliminary Certificate (6-12)	MS
PCB	Third Preliminary Certificate (6-12)	MS
PC5	First Preliminary Certificate (6-12) (valid 2 scholastic years)	EdS
P5C	First Preliminary Certificate (6-12) (valid 1 scholastic year)	EdS
PC6	Second Preliminary Certificate (6-12)	EdS
PCC	Third Preliminary Certificate (6-12)	EdS
PD1	First Preliminary Certificate (4-8) (valid 2 scholastic years)	BS
P1D	First Preliminary Certificate (4-8) (valid 1 scholastic year)	BS
PD2	Second Preliminary Certificate (4-8)	BS
PDA	Third Preliminary Certificate (4-8)	BS
PD3	First Preliminary Certificate (4-8) (valid 2 scholastic years)	MS
P3D	First Preliminary Certificate (4-8) (valid 1 scholastic year)	MS
PD4	Second Preliminary Certificate (4-8)	MS
PDB	Third Preliminary Certificate (4-8)	MS
PD5	First Preliminary Certificate (4-8) (valid 2 scholastic years)	EdS
P5D	First Preliminary Certificate (4-8) (valid 1 scholastic year)	EdS
PD6	Second Preliminary Certificate (4-8)	EdS
PDC	Third Preliminary Certificate (4-8)	EdS
PF1	First Preliminary Certificate (P-3) (valid 2 scholastic years)	BS
P1F	First Preliminary Certificate (P-3) (valid 1 scholastic year)	BS
PF2	Second Preliminary Certificate (P-3)	BS
PFA	Third Preliminary Certificate (P-3)	BS
PF3	First Preliminary Certificate (P-3) (valid 2 scholastic years)	MS
P3F	First Preliminary Certificate (P-3) (valid 1 scholastic year)	MS
PF4	Second Preliminary Certificate (P-3)	MS
PFB	Third Preliminary Certificate (P-3)	MS
PF5	First Preliminary Certificate (P-3) (valid 2 scholastic years)	EdS
P5F	First Preliminary Certificate (P-3) (valid 1 scholastic year)	EdS
PF6	Second Preliminary Certificate (P-3)	EdS
PFC	Third Preliminary Certificate (P-3)	EdS
SA1	First Special Alternative (P-3)	BS
SA2	Second Special Alternative (P-3)	BS
SA3	Third Special Alternative (P-3)	BS
SA4	First Special Alternative (1-6)	BS
SA5	Second Special Alternative (1-6)	BS
SA6	Third Special Alternative (1-6)	BS
SA7	First Special Alternative (4-8)	BS
SA8	Second Special Alternative (4-8)	BS
SA9	Third Special Alternative (4-8)	BS
SAD	First Special Alternative (P-12)	BS
SAE	Second Special Alternative (P-12)	BS
SAF	Third Special Alternative (P-12)	BS
SAG	First Special Alternative (B-K)	BS
SAH	Second Special Alternative (B-K)	BS
SAI	Third Special Alternative (B-K)	BS
SB4	First Special Alternative (K-6)	BS

CURRENT TYPES AND LEVELS OF CERTIFICATES

Type	Certificate and Grade Levels	<u>Class/Degree</u>
SB5	Second Special Alternative (K-6)	BS
SB6	Third Special Alternative (K-6)	BS
SBA	First Special Alternative (6-12)	BS
SBB	Second Special Alternative (6-12)	BS
SBC	Third Special Alternative (6-12)	BS
SBD	First Special Alternative (P-12)	MS
SBE	Second Special Alternative (P-12)	MS
SBF	Third Special Alternative (P-12)	MS
SL1	Speech-Language Pathology Assistant, Level 1 (P-12)	BS
SL2	Speech-Language Pathology Assistant, Level 2 (P-12)	BS

**ALABAMA TEACHERS' CERTIFICATES
TYPES AND LEVELS OF CERTIFICATES NO LONGER INITIALLY ISSUED**

<u>Type</u>	<u>Certificate and Grade Levels</u>	<u>Class/Degree</u>
001	*Superintendent-Principal (P-12)	A
004	**Career/Technical (7-12)	A
005	**Special (P-12)	A
008	*Elementary (1-9)	A
010	**Superintendent-Principal (P-12)	B
011	**Supervisor (P-12)	B
014	**Career/Technical (7-12)	B
015	**Special (P-12)	B
017	-Secondary Temporary (7-12)	B
019	*Elementary (1-9)	B
022	**Career/Technical (previous title: Day Trade) Type III (7-12)	-
023	**Special (P-12)	C
024	**Secondary (7-12)	C
025	**Elementary (1-9)	C
026	-Life	-
027	**Elementary (1-9)	D
028	-Elementary (1-9)	E
029	-Elementary (1-9)	F
030	-Conditional Life	-
031	-Emergency	-
032	-Defense (prior to 1970)	-
032	*Supervisor of Instruction (4-8)	A
033	*Supervisor of Instruction (4-8)	AA
034	-Substitute	
035	*Elementary (1-9)	AA
038	*Superintendent-Principal (P-12)	AA
042	**Special (P-12)	AA
044	-Career/Technical (previous title: Day Trade) Type I (7-12)	-
045	**Career/Technical (previous title: Day Trade) Type II (7-12)	-
47C	*Special Education (7-12)	A
48C	*Special Education (7-12)	B
49C	*Special Education (7-12)	AA
060	-Provisional	-
061	*Supervisor of Instruction (P-3)	A
062	*Supervisor of Instruction (P-3)	AA
065	-Provisional	-
068	-Provisional	-
069	-Conditional Health Occupations	-
070	-Conditional Health Occupations	-
071	*Reading Teacher (P-3)	A
072	*Reading Teacher (P-3)	AA
81A	Educational Administrator (P-12) (Note: 81A certificates have been converted to 081 certificates)	A
084	**Career/Technical (previous title: Health Occupations) Type III (7-12)	-
085	**Career/Technical (previous title: Health Occupations) Type II (7-12)	-
086	-Career/Technical (previous title: Health Occupations) Type I (7-12)	-
0M1	-Mathematics Permit	-
0M2	-Elementary Physical Education Permit	-
SAA	-First Special Alternative Certificate (7-12)	BS
SAB	-Second Special Alternative Certificate (7-12)	BS
SAC	-Third Special Alternative Certificate (7-12)	BS
SP2	-Special Approved Plan (P-3)	BS
SP3	-Special Approved Plan (P-3)	BS
SP4	-Special Approved Plan (1-6)	BS
SP5	-Special Approved Plan (1-6)	BS
SP6	-Special Approved Plan (4-8)	BS

TYPES AND LEVELS OF CERTIFICATES NO LONGER INITIALLY ISSUED

<u>Type</u>	<u>Certificate and Grade Levels</u>	<u>Class/Degree</u>
SP7	-Special Approved Plan (4-8)	BS
SP8	-Special Approved Plan (7-12)	BS
SP9	-Special Approved Plan (7-12)	BS
SPA	-Special Approved Plan (P-12)	BS
SPB	-Special Approved Plan (P-12)	BS

* May be continued or reinstated

** May be continued, but not reinstated

- Cannot be continued or reinstated

CERTIFICATE RECIPROCITY FOR OUT-OF-STATE TEACHERS

Alabama grants reciprocity privileges with regard to curriculum requirements for professional certificates. An initial, regular certificate may be granted for an applicant's **MAJOR** area of concentration when the program the applicant completed was approved by one of the reciprocity systems listed below, a comparable area of certification exists in Alabama, and all other certification requirements have been met, such as teaching experience and/or tests.

In addition to completion of an approved program, applicants who meet the stipulations of the "certificate plus experience" option of agreements executed under the NASDTEC Interstate Agreement will also be eligible for reciprocity privileges.

RECIPROCITY OPTIONS

1. Completion of a teacher education program with an out-of-state institution which is approved by the National Council for Accreditation of Teacher Education (NCATE).
2. Completion of requirements in accordance with the terms of the NASDTEC Interstate Agreement. Contact the Teacher Education and Certification Office for specific details.
3. Approved program recognition may be extended to states which are not participants in the NASDTEC Interstate Agreement.

NASDTEC INTERSTATE AGREEMENTS FOR TEACHERS

1. Alaska	10. Georgia	23. Mississippi	36. Pennsylvania
2. Arizona	11. Guam	24. Montana	37. Rhode Island
3. Arkansas	12. Hawaii	25. Nebraska	38. South Carolina
4. California	13. Idaho	26. Nevada	39. Tennessee
5. Colorado	14. Illinois	27. New Hampshire	40. Texas
6. Connecticut	15. Indiana	28. New Jersey	41. Utah
7. Delaware	16. Kansas	29. New Mexico	42. Vermont
8. Department of Defense Education Activity (DODEA)	17. Kentucky	30. New York	43. Virginia
9. Florida	18. Louisiana	31. North Carolina	44. Washington
	19. Maine	32. North Dakota	45. Washington D. C.
	20. Maryland	33. Ohio	46. West Virginia
	21. Massachusetts	34. Oklahoma	47. Wyoming
	22. Michigan	35. Oregon	

NASDTEC INTERSTATE AGREEMENTS FOR SUPPORT PERSONNEL*

*Library-Media, Counseling, Psychometry, and School Psychology

1. Alaska	8. Maine	15. Oklahoma	22. Washington
2. Arizona	9. Maryland	16. Oregon	23. Washington D.C.
3. Connecticut	10. Massachusetts	17. Rhode Island	24. West Virginia
4. Florida	11. Mississippi	18. South Carolina	25. Wyoming
5. Georgia	12. New Hampshire	19. Tennessee	
6. Guam	13. New York	20. Utah	
7. Indiana	14. North Carolina	21. Virginia	

NASDTEC INTERSTATE AGREEMENTS FOR ADMINISTRATORS

1. Alaska	9. Maryland	17. Oklahoma	25. Virginia
2. Arizona	10. Massachusetts	18. Oregon	26. Washington
3. Colorado	11. Mississippi	19. Rhode Island	27. Washington, D. C.
4. Delaware	12. Nebraska	20. South Carolina	28. West Virginia
5. Florida	13. Nevada	21. Tennessee	29. Wyoming
6. Georgia	14. New Mexico	22. Texas	
7. Idaho	15. New York	23. Utah	
8. Indiana	16. North Carolina	24. Vermont	

APPENDIX B

SUBJECT AND PERSONNEL CODES

APPENDIX B
May 2008

List No. 1

DELETED COURSES FOR 2008-2009

~S~

090 Speech-Language Pathology Assistant
050 Supervisor

List No. 2

NEW COURSES FOR 2008-2009

~A~

057 Assistant Career Technical Administrator (system-wide)

~C~

056 Career Technical Administrator (system-wide)

~D~

340150 Driver Education, Classroom and Practice

~M~

077 Mathematics Coach

~O~

098 Other Certified Vacancy
099 Other Certified Retired

~S~

078 Science Coach
091 Speech Pathologist
092 Speech Pathologist Assistant
059 Supervisor-Other

~T~

014 Teacher-Gifted
015 Teacher-Collaborative Special Education
016 Teacher-Collaborative Other
018 Teacher-Retired
019 Teacher-Vacancy
097 Technology Coordinator-Certified

List No. 3

COURSE NAME CHANGES FOR 2008-2009

025 Career/Technical Administrator *to* Career/Technical Administrator (school level)
035 Assistant Career/Technical Administrator *to* Assistant Career/Technical Administrator (school level)