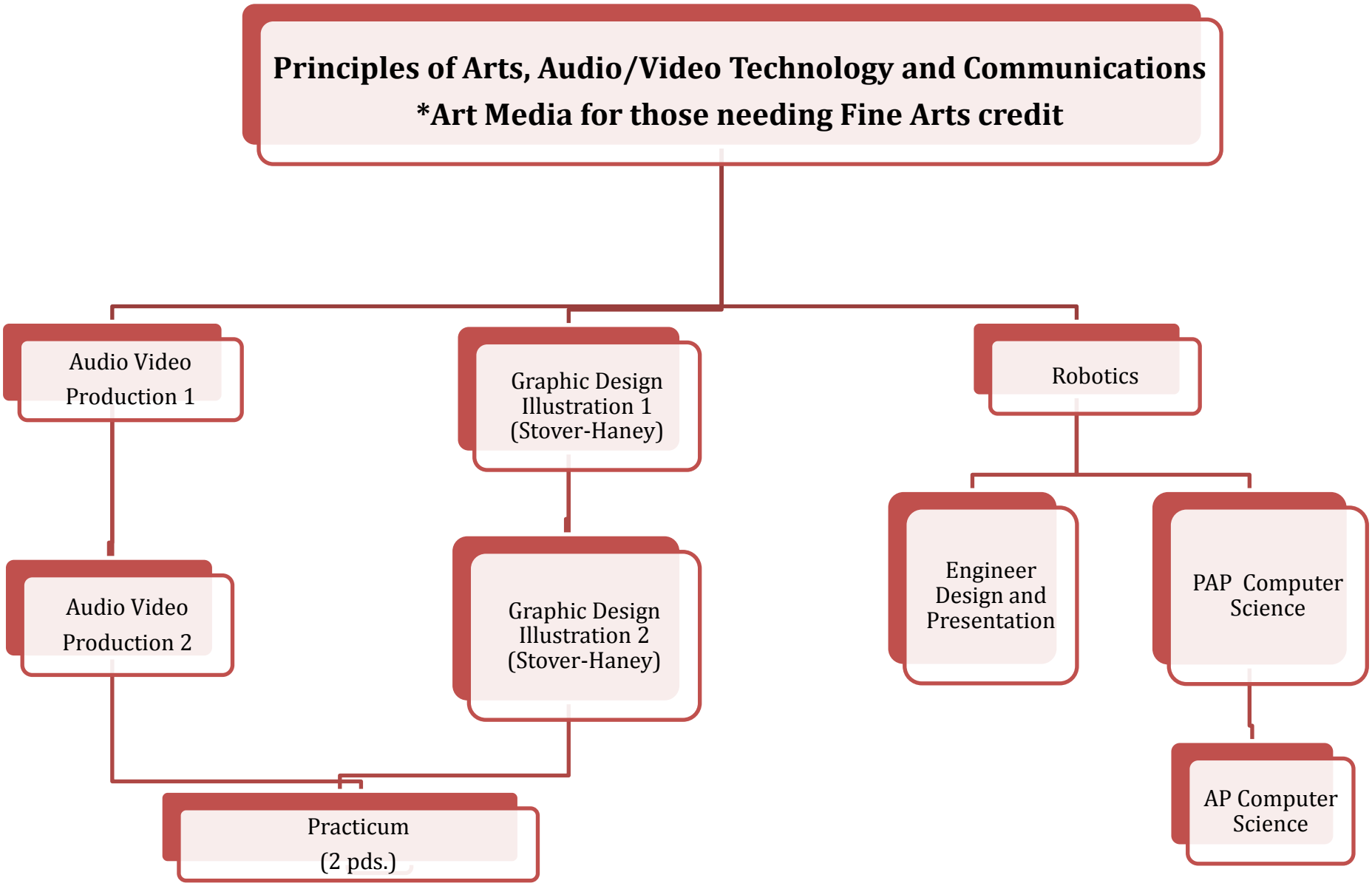
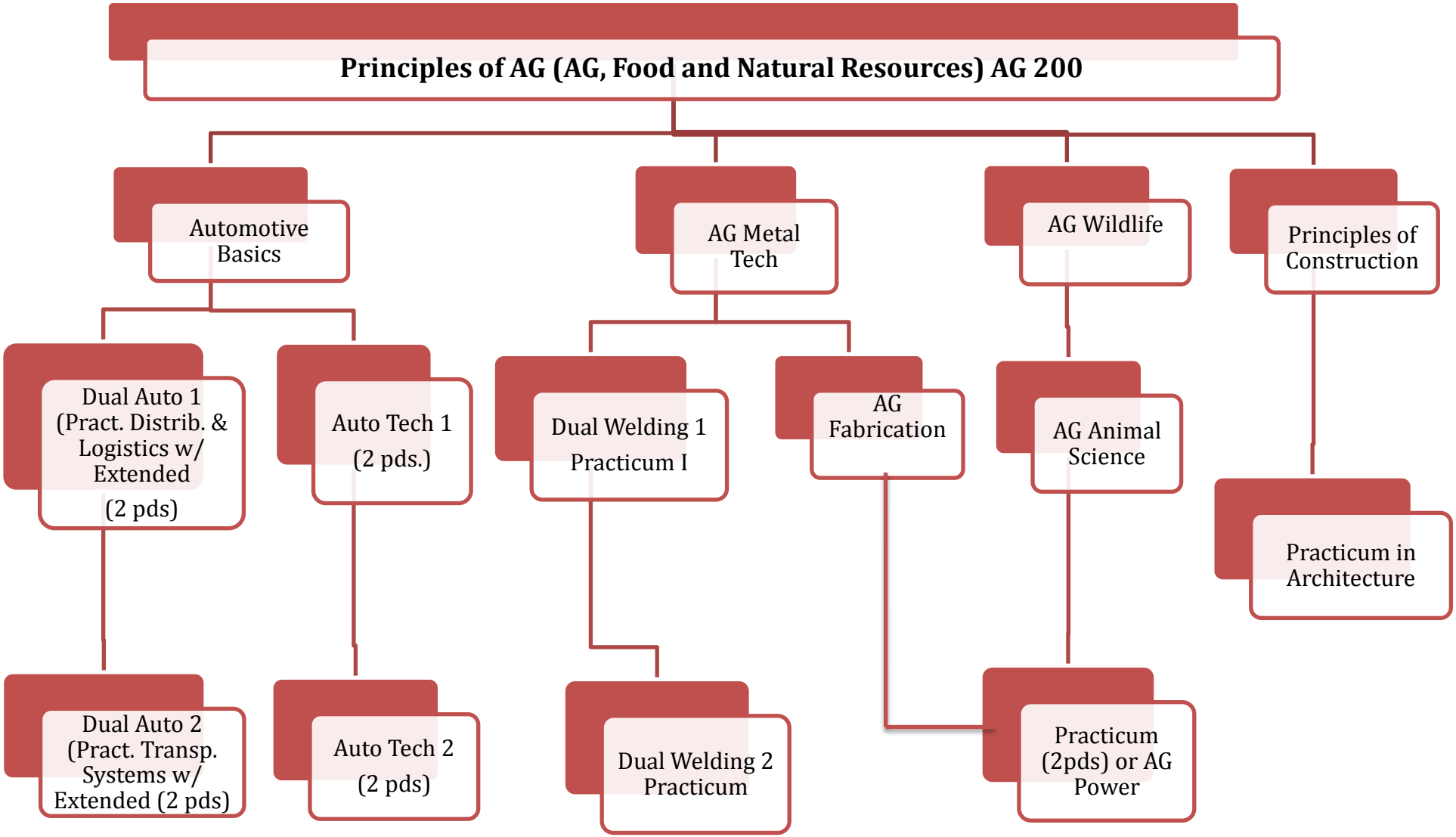
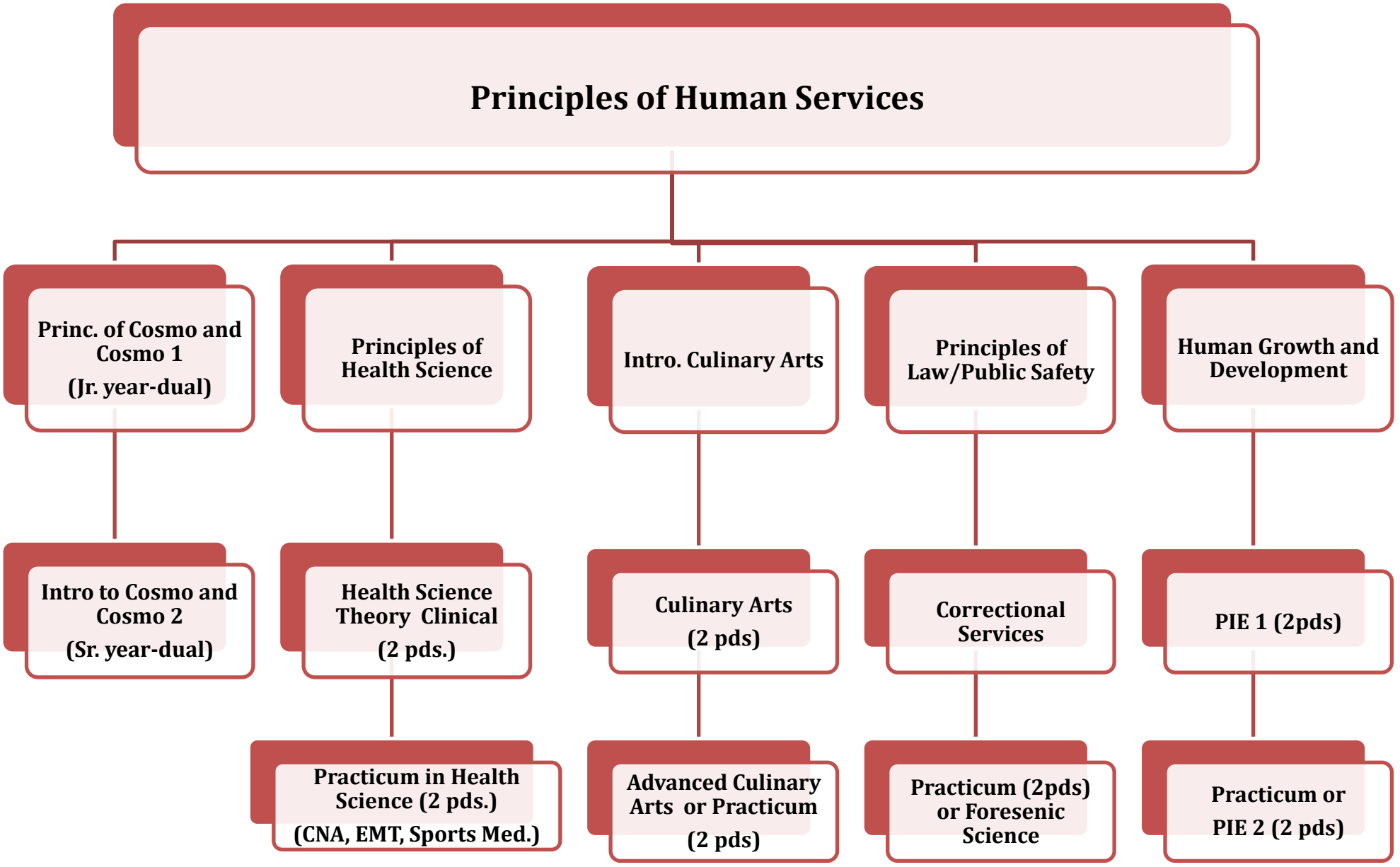
Endorsement: Business and Industry and/or STEM



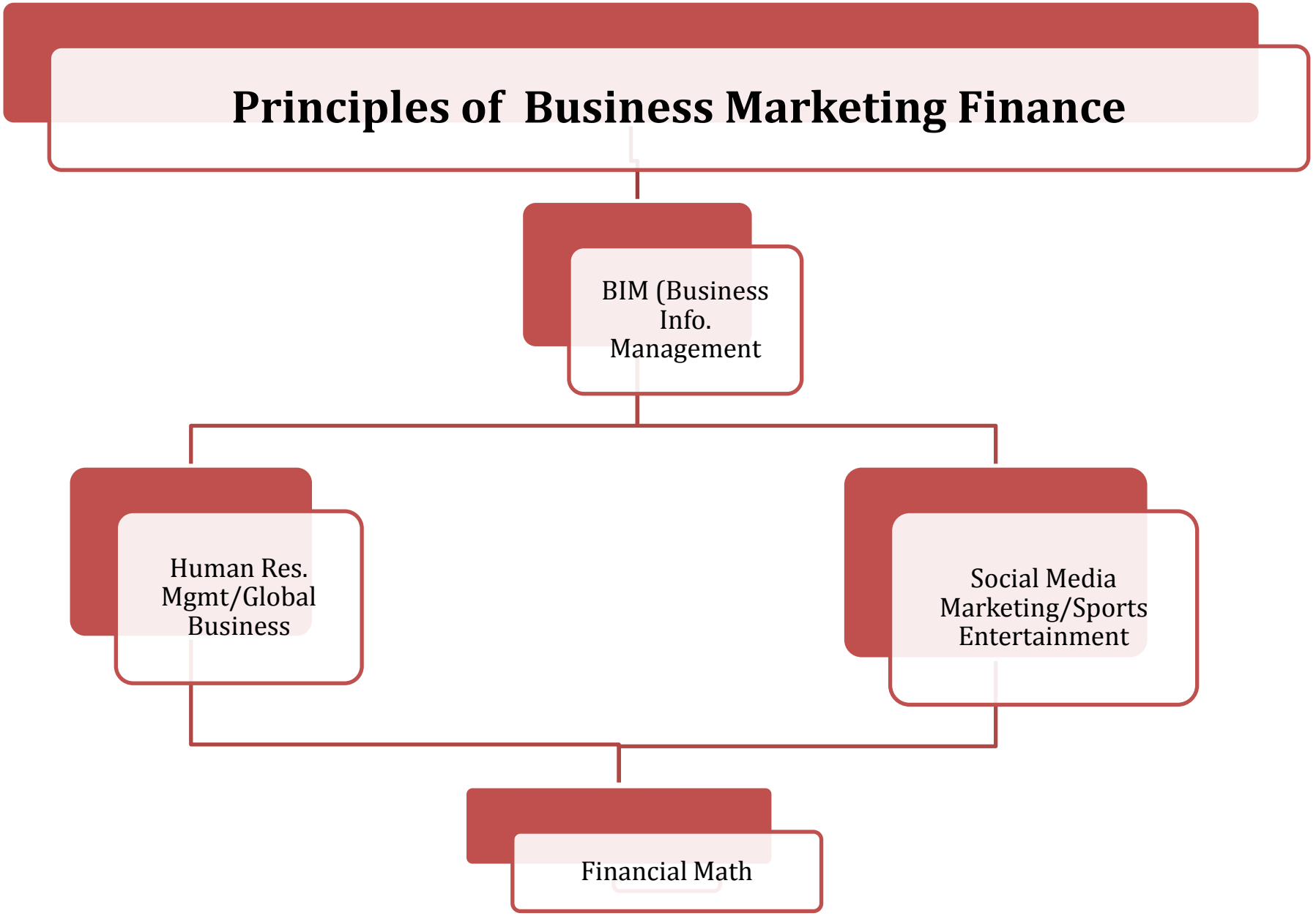
Endorsement: Business and Industry



Endorsement: Public Service



Endorsement: Business and Industry



Endorsement: Business and Industry and/or STEM

Principles of Arts, Audio/Video Technology and Communication
Semester(s): 1 **Credit: 1**
Grades: 9-12
Students will be expected to develop a strong foundation in computer and technology applications. The course will also develop a proficiency in oral and written communications. Knowledge, skills and educational requirements for career opportunities will be stressed. This course will cover basic Photoshop, iMovie and presentation software.

Art Media Communication
General Requirements: 9-12 **Credit: 1**
Grades: 9th-12th (9th preferred) ***Can count for Fine Arts credit**
Students will be expected to develop a strong foundation in computer and technology applications. Creativity and design, acceptance, leadership, and choice control will be explored through images, posters, videos and more. The course will develop a proficiency in oral and written communications. Knowledge, skills and educational requirements for career opportunities will be stressed. This course will cover basic Photoshop, iMovie, GIMP, Sketchbook and presentation software.

Audio/Video Production1, 2
Semester(s): 2 **Credit: 1**
Grades10-12
Prerequisite: Principles of AAVTC or Art Media
Video Production is a comprehensive course, centering on producing and editing videos and graphics. The students will produce commercials, videos and graphics for the Tiger Arena.
After School Hours, students will be required to attend events held in the Tiger Arena.
This includes volleyball games, basketball games and special events.

Graphic Design Illustration 1
Semester(s): 2 **Credit: 1**
Grades: 10th-12th **Prerequisite: Art Media or Principles of AAVTC**
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Graphic Design Illustration 2
Semester(s): 2 **Credit: 1**
Grades: 10th-12th **Prerequisite: Graphic Design 1**
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

STEM Electives

Robotics

Semesters: 2 **Credit: 1**

Grade: 10th-12th **Prerequisites: Principles of AAVTC**

Students successfully completing this course will learn the engineering design process. Topics include components of engineering and technology systems, sketching and drafting, safety regulations, technology innovation, importance of teamwork, leadership, work habits, and organizational skills. Students will also investigate the opportunities and career fields related to science, technology, engineering, and mathematics. The course will culminate with a team-based project.

Engineering Design and Presentation

Semester(s): 2 **Credit: 1**

Grades: 11th-12th **Required Prerequisite: Robotics and Alg. 1**

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, drafting, and what is required to gain and maintain employment in these areas.

PAP Computer Science

Semesters: 2 **Credit: 1**

Grade: 10th-12th **Prerequisites: Robotics and Alg. 1**

Computer Science will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

AP Computer Science

Semesters: 2 **Credit: 1**

Grade: 11th-12th **Prerequisites: PAP Computer Science and Alg. 2**

Introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data, approaches to processing data (algorithms), analysis of potential solutions and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large complex problems.

Endorsement: Business and Industry

Principles of Agricultural Food and Natural Resources

Semester(s): 2 **Credit: 1**

Grades: 9-12 (9th grade preferred)

Prepares students for careers in agriculture, food, and natural resources. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices and expectations. Throughout the year we will delve into the widely diversified field of agriculture covering many topics such as: animal science, vet science, plant science, mechanical science, natural resources, biotechnology, agri-business, and many other areas with an emphasis on career exploration. FFA is an integral part of the agricultural education program, basic FFA knowledge and its opportunities will be integrated throughout the year. Skills learned through the FFA and classroom/laboratory instruction will be utilized for creating a Supervised Agricultural Experience (SAE) project for each individual student to complete the "3 Circle Model".

Wildlife, Fisheries, and Ecology Management

Semester(s): 2 **Credit: 1**

Grades: 9-12 (10th grade preferred) **Prerequisite: Principles of AG**

To be prepared for career in natural resources systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish and their ecological needs as related to current agricultural practices. Students will use knowledge gained throughout this course to contribute to the Wildlife CDE competitions in the spring each year.

Advanced Animal Science

Semester(s): 2 **Credit: 1**

Grades: 11th-12th (11th grade preferred) **Prerequisite: AG Wildlife**

This course is offered to meet the needs of students who want to advance their education in animal science. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Students will apply knowledge of anatomy and physiology to produce and/or manage animals in a domesticated or natural environment and gain knowledge in species specific operations, genetics, livestock operation, processing and reproduction. Algebra, trigonometry, biology, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips. This class is reinforced through the FFA and SAE activities such as the Livestock Career Development Event and Proficiency Awards. Each student will be expected to complete a Supervised Agricultural Experience (SAE).

Agricultural Mechanics and Metal Technologies, Welding

Semester(s): 2 **Credit: 1**

Grades: 10-12 (10th grade preferred) **Prerequisite: AG 200**

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop and understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal techniques.

Agricultural Fabrication

Semester(s): 2 **Credit: 1**

Grades: 11th-12th (11th grade preferred) **Prerequisite: AG Mechanics**

Prepares students to be introduced and gain understanding towards the development of agricultural power systems, metal fabrication techniques, agricultural structures, electrical controls, and land and water management systems. This course serves as somewhat of a capstone to upperclassmen where they put together skills learned into culminated projects.

Agricultural Power Systems

Semester(s): 2 **Credit: 1**

Grades: 9-12 (12th grade preferred) **Prerequisite: AG FAB or Adv. Anim. Science**

Prepares students for careers in agricultural power, structural, and technical systems and will attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students will have opportunities to learn, reinforce, apply and transfer their knowledge and technical skills in a variety of settings. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery. Students will experience opportunities for hands on involvement with small engines and shop equipment such as cutting torches, welders, plasma cutters and much more.

Welding I -Dual Credit

Semester(s): 2 **Credits: 2 (2 periods)**

Grades: 11-12

Note: Student will be required to complete a Hill College application.

Welding II Dual Credit

Semester(s): 2 **Credits: 2 (2 periods)**

Grade: 12 **Prerequisite: Welding I-Dual**

Completion of Welding I and Welding II leads to a Certificate of Completion in Basic Arc Welding Skills and qualifies the students to pursue further college training or to seek employment in the field of weldi

Automotive Basics

Semester(s): 2 **Credit: 1**

Grades: 9-12

This introductory course is a cluster course designed to provide a broad basic understanding of career opportunities and training requirements in addition to introducing students to skills in the six transportation related service careers: aircraft mechanics, auto body and collision repair, automotive technology, diesel engine mechanics, small engine repair, and mechanics.

Automotive Technology 1

Semester(s): 2 **Credit: 2 (2 periods)**

Grades: 11th-12th grade

Automotive Technology is an introduction to auto mechanics. Students learn about employability characteristics, understand requirements of automotive services, comprehend the functions and applications of various tools, and apply concepts and skills of the trade in simulated and actual work situations. Students are afforded an opportunity for hands-on learning experiences. This course meets for two consecutive class periods over the course of the entire academic year.

Automotive Technology 2

Semester(s): 2 **Credit: 2 (2 periods)**

Grades: 11-12 **Prerequisite: Auto Tech 1**

Advanced Automotive Technology is continued study in the automotive field. Students expand their knowledge about employability characteristics, requirements of automotive services, functions and applications of various tools, and concepts and skills of the trade in simulated and actual work situations. Students are afforded an opportunity for hands-on learning experiences. This course is three periods long and meets during both semesters.

Automotive - Dual 1

Semester(s): 2 **Credit: 3 (3 periods)**

Grades: 11-12

Students will travel to Hill College in Cleburne to take two courses at Hill College each semester.

Automotive - Dual 2

Semester(s): 2 **Credit: 3 (3 periods)**

Grades: 11-12 **Prerequisite: Dual Auto 1**

Students will travel to Hill College in Cleburne to take two courses at Hill College each semester.

Endorsement: Public Service

Principles of Human Services
Semester(s): 1 **Credit: 1**
Grades: 9th-12th
This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Cosmetology 1-Dual
Semester(s): 1 **Credit: 3 (3 periods)**
Grades: 11-12 **College Credits: 16 hours**
Prerequisite: Principles of Human Service
Note: Student will be required to complete a Hill College application. Student will leave the high school campus after 5th period and go to the Glen Rose Hill College campus. Student will remain on the Hill College campus until 5:00 pm Monday-Friday.

Cosmetology 2 Dual
Semester(s): 1 **Credit: 3 (3 periods)**
Grades: 11-12 **College Credits: 16 hours**
Prerequisite: Cosmetology 1
Note: Student will be required to complete a Hill College application. Student will leave the high school campus after 5th period and go to the Glen Rose Hill College campus. Student will remain on the Hill College campus until 5:00 pm Monday-Friday.

Principles of Health Science
Semester(s): 2 **Credit: 1**
Grade 10-12
The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. This one year course also counts as a health credit.

Health Science Theory + Clinical

Semester(s): 2 **Credit: 2 (2 periods)**

Grade 11-12 **Prerequisites: Principles of Health Science**

Health Science is offered through the Career & Technology Department for students interested in the health care industry. Students observe and gain knowledge in a variety of health care occupations. Students rotate through a series of healthcare occupations, such as veterinarians' offices, doctors' offices and a variety of hospital departments.

Note: Glen Rose Medical Center (GRMC) will conduct an orientation class, TB skin test required by GRMC. A drug test within last six months with a negative result is required. Students will need navy blue scrubs to wear to rotations, school will provide transport.

Practicum in Health Science

Semester(s): 2 **Credit: 2 (2 periods)**

Grade 12 **Prerequisites: Health Science Theory**

The

The Health Science Practicum course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. Student will use an online program to receive their CNA or EMT certification.

Intro to Culinary Arts

Semester(s): 2 **Credit: 1**

Grades: 10-12 **Prerequisite: Princ. Of Human Services**

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Culinary Arts

Semester(s): 2 **Credit: 2 (2 periods)**

Grades: 10-12 **Prerequisite: Intro to Culinary Arts**

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue and national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Advanced Culinary Arts

Semester(s): 2 **Credit: 2 (2 periods)**

Grades: 10-12 **Prerequisite: Intro to Culinary Arts**

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by infusing high-level, industry driven content to prepare students for success in higher education, certifications and/or immediate employment.

Principles of Law/Public Safety

Semester(s): 1 **Credit: 1**

Grades: 10th-12th

Introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

Correctional Services

Semester(s): 1 **Credit: 1**

Grades: 11th-12th **Prerequisite: Principles of Law**

Students prepare for certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

Forensic Science

Semester(s): 1 **Credit: 1**

Grades: 12th **Prerequisite: Bio., Chem., and Correctional Services**

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

Human Growth and Development

Semester(s): 1 **Credit: 1**

Grades: 9th-12th **Prerequisite: Principles of Human Services**

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

PIE: Instructional Practices in Education and Training 1 and 2

Semester(s): 2 **Credit: 2 (2 periods)**

Grades: 11-12 **Prerequisite: Human Growth and Development**

Instructional Practices in Education and Training offers a field-based internship working under the joint direction and supervision of both a family and consumer science teacher and an elementary, intermediate, or Jr. High educator. This course enhances Glen Rose High School Students' attitude of social responsibility toward others and develops a personal sense of belonging, self-worth and confidence positive attitude towards self, others, school, and community, ability and appreciation for helping others, and enhance the learning environment by providing more approaches that involve students in the learning process. They will work in direct instructional roles with their younger peers. This course will provide students a back ground knowledge of child and adolescent development principles and effective teaching practices.

Note: Students must sign a contract. They will be removed from class if they miss over ten days in one semester, get more than one ISS, or break the rules in signed contract.

Endorsement: Business and Industry

Principles of Business, Finance and Marketing
Semester(s): 2 **Credit: 1**
Grades: 9th-12th
Is a course designed for students to gain business skills with knowledge in private enterprise systems, the impact of global business, marketing of goods and services, advertising, and business ethics. Financial management and career investigation and planning will also be explored.

Business Information Management 1 (BIM)
Semester (s): 2 **Credit: 1**
Grades: 9-12
Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database and make an electronic presentation using appropriate software.

Sports & Entertainment Marketing
Semester(s): 1 **Credit: .5**
Grades: 11th-12th **Prerequisite: BIM**
Is a course designed to provide students with an understanding of the marketing concepts and theories that apply to sports, sporting events and entertainment. Instructional areas will include: an orientation to the sports and entertainment industry, basic marketing, target marketing, sponsorship, event marketing, career opportunities, pricing, advertising and promotion.

Social Media Marketing
Semester(s): 1 **Credit: .5**
Grades: 11th-12th **Prerequisite: BIM**
Social Media Marketing is designed to look at the rise of social media and how it has transformed the business arena. Students will learn about the multi-disciplinary implications and how to manage a successful social media presence for an organization.

Advertising
Semester(s): 1 **Credit: .5**
Grades: 11th-12th **Prerequisite: BIM or Principles or Business**
Advertising and Sales Promotion is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies, and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

Human Resource Management

Semester(s): 1 **Credit: .5**

Grades: 11th-12th **Prerequisite: BIM**

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of human resources in order to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, financial, ethical, and international dimensions of business to make appropriate human resources decisions.

Global Business

Semester(s): 1 **Credit: .5**

Grades: 11th-12th **Prerequisite: BIM**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students apply technical skills to address global business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.