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CLUSTER	PATHWAY	DETAIL	COURSE 1	COURSE 2	COURSE 3	COURSE 4	CAREER CHOICES	
ADVANCED MANUFACTURING CLUSTER	Engineering and Technology Pathway	The major focus of the Introduction to Engineering Design (IED) course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. It allows students to develop strategies to enable and direct their own learning.	Foundations of Engineering and Technology	Engineering Concepts	Engineering Applications	Internship Forsyth	• Civil Engineer • Drafter • Electrical Engineer • Industrial Engineer	• Machinist • Manufacturing • Materials/Mechanical Engineer • Quality Control Inspector
ARTS, ENTERTAINMENT AND DESIGN CLUSTER	Audio/Video Technology and Film Pathway	This pathway teaches all aspects of video production from pre-production, production, and post-production, including theory and practical application. Students will have the opportunity to participate in various types of broadcast/video production from events and commercials to mini-movies and documentaries.	Audio and Video Technology and Film I	Audio and Video Technology and Film II	Audio and Video Technology and Film III	Internship Forsyth	• A/V Equipment Technician • Broadcast News Analyst • Broadcast Technician • Camera Operator	• Control Room Technician • Journalist/Editor/Reporter • Sound Technician • Station Manager
DIGITAL TECHNOLOGY CLUSTER	Computer Science Pathway	Careers in Computer Science lead individuals to create, modify, and test codes - all while inventing and designing new approaches to computing technology and finding innovative uses for existing technology. Career area focus requires solving complex problems in computing for business, medicine, science, and other fields.	Introduction to Software Technology	Computer Science Principles or AP Computer Science Principles	AP Computer Science A	Internship Forsyth	• Computer Programmers • Computer Hardware Engineers • Computer Network Architects • Computer System Analysts	• Database Administrators • Information Security Analysts • Software Developers • Software Testers
	Programming Pathway	The Programming pathway gives many opportunities to strengthen problem solving skills, and provides needed skills in all disciplines.	Introduction to Software Technology	Computer Science Principles or AP Computer Science Principles	Programming, Apps, Games and Society	Internship Forsyth	• Actuary • Computer Programmer • Computer Scientist • Computer Systems Analyst	• Computer Software Engineer • Database Administrator • Game Artist • Software Developer
EDUCATION CLUSTER	Education as a Profession Pathway	Educational services is the second largest industry. This includes education institutions from elementary schools to universities. The overall demand for educational services will increase as growing emphasis on improving education along with retirements will create large numbers of job openings.	Education as a Profession I	Education as a Profession II	Education as a Profession Practicum	Internship Forsyth	• Adult Educator • After-School Supervisor • Educational and Teacher Aide • K-12 School Teacher	• Media Specialist • Post-Secondary Vocational • School Administration • Special Education Teacher
FINANCIAL CLUSTER	Business Accounting Pathway	Strong growth in accounting jobs throughout the next decade is expected to occur due to the increased growth in the number of new businesses and stricter accounting and auditing regulations.	Introduction to Business and Technology	Financial Literacy	Principles of Accounting I	Internship Forsyth	• Auditing Clerk • Auditor • Bookkeeper • Budget Analyst	• Certified Public Accountant • Financial Advisor or Analyst • Income Tax Professional • Non-Profit Accountant
	Financial Services Pathway	This pathway introduces students to the basics of the banking system, bank operating procedures, negotiable instruments, and the deposit and credit functions of banks. Current issues and future trends in banking are examined. Students explore the major functions of bank employees by completing a flow-of-work simulation.	Introduction to Business and Technology	Financial Literacy	Banking, Investing and Insurance	Internship Forsyth	• Accountant • Auditor • Claims Adjuster • Financial Planner	• Insurance Sales Agent • Loan Officer • Salesperson • Tax Associate
HEALTHCARE AND HUMAN SERVICES CLUSTER	Biotechnology Research and Development Pathway	This pathway provides an understanding of topics such as physiology, genetics, microbiology and public health. Areas of instruction include an understanding of the processes, structures and interactions of the human body, as well as the prevention, diagnosis and treatment of disease.	Introduction to Healthcare Science	Essentials of Biotechnology	Applications of Biotechnology	Internship Forsyth	• Biological or Medical Illustrator • Crime Lab Technician • Laboratory Technician • Licensed Practical Nurse	• Medical Writer • Mortician • Radiology Technician • Surgical Technician
	Phlebotomy Pathway	A phlebotomist draws blood for testing, verifies the patient’s identity, and enters patient information into a database. Persons going into phlebotomy must be comfortable with blood, needles, and test tubes. Work location typically is a hospital, lab, or blood bank setting.	Introduction to Healthcare Science	Essentials of Healthcare	Diagnostics Phlebotomy	Internship Forsyth	• Medical Lab Assistant • Patient Service Tech (PST) • Physician • Phlebotomist	• Phlebotomy Supervisor • Radiologic Technologist • Registered Nurse • Respiratory Technician
	Sports Medicine Pathway	Careers in this industry focus on improvement of ability to perform life tasks through the combined use of physical training (exercise, movement, and modification of activities), medications, adaptive equipment, orthotics (braces), and prosthesis devices. Careers in rehabilitation focus on helping people return to independence and self-reliance.	Introduction to Healthcare Science	Essentials of Healthcare	Sports Medicine	Internship Forsyth	• Athletic Trainer • Chiropractor • Massage Therapist • Occupational Therapist	• Orthopedic Physician • Physical Therapy Assistant • Podiatric Physician • Radiologist
	Sports Nutrition Pathway	The industry is evolving towards personalized nutrition, utilizing data analytics, genetic testing, and wearable technology to tailor dietary advice. Demand is increasing in both elite sports and general health sectors due to rising awareness of nutrition's role in preventing health conditions.	Food for Life	Food, Nutrition and Wellness	Sports Nutrition	Internship Forsyth	• Collegiate Sports Nutritionist • Corporate Wellness Coach • Esports Nutritionist • Performance Nutrition	• Product Development Scientist • Professional Team Nutritionist • Registered Dietitian Nutritionist • Tactical Athlete Specialist
HOSPITALITY, EVENTS AND TOURISM CLUSTER	Culinary Arts Pathway	Students learn fundamental food preparation terms, concepts, and methods in culinary arts. Fundamental techniques, skills, and terminology are covered and mastered with an emphasis on basic kitchen and dining room safety, sanitation, equipment maintenance and operation procedures.	Introduction to Culinary Arts	Culinary Arts I	Culinary Arts II	Internship Forsyth	• Caterer • Chef and Head Cook • Food Stylist and Photographer • Food Writer and Critic	• Kitchen Manager • Pastry Chef • Personal Chef • Restaurant Entrepreneur
	Sports and Entertainment Marketing Pathway	Students will master the industry’s terminology, market arenas and venues, obtain sponsorships, maintain solid media relations, coordinate and manage campaigns and events, etc. Students have the opportunity to take the MBA Research "A*S*K Marketing Concepts" or the NOCTI "Marketing Education Manager Trainee".	Marketing Principles	Introduction to Sports and Entertainment Marketing	Advanced Sports and Entertainment Marketing	Internship Forsyth	• Event Coordinator • Market Researcher Promoter • Public Relations Salesperson • Social Media Manager	• Sports Agent • Sports Manager • Sports Marketing Professional • Sports Writer
MARKETING AND SALES CLUSTER	Marketing and Management Pathway	Students develop knowledge and skills of marketing (economics, human relations and business basics) and the functional areas of marketing (product and service planning, management, purchasing and pricing, selling and promotion, risk management, financing and distribution), as well as international marketing, management and entrepreneurship.	Marketing Principles	Marketing and Entrepreneurship	Marketing Management	Internship Forsyth	• Advertising Account Executive • Communications Specialist • Customer Service • Entertainment Marketer	• Insurance Agent • Marketing Specialist • Media Buyer • Public Relations Specialist
	Marketing Communications & Promotions Pathway	Marketing jobs are found in almost every industry. College graduates with related experience, a high level of creativity and strong communication skills will have the best job opportunities. Technology is changing the way we communicate and promote goods and services with potential customers.	Marketing Principles	Promotional and Digital Marketing	Integrated Marketing Communications	Internship Forsyth	• Advertising/Promotions • Brand Ambassador • Green Marketer • Market Research Analyst	• Marketing Manager • Marketing Strategist • Public Relations Specialist • Sales Managers/Representative