

# **Career & Technical Education**



# **Appendix**

**April 3, 2018**

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## Career & Technical Education – Health Science

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## Program of Study- Allied Health & Nursing

<b>Career Cluster &amp; Pathway Description: Health Science – Allied Health &amp; Nursing</b>		<b>Developed By:</b> Suzy Coronel, Andrea Gelvin, & Melissa Sawchuk <b>Date:</b> 2017
<b>Middle School Exploratory Options (OPTIONAL)</b>		
<b>6th</b> AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities	<b>7th</b> Career Clusters Interest Inventory AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities	<b>8th</b> AKCIS Jr. Portfolio + HS Course Planner Career Interest Inventory Other Career Guidance/Planning/Information Activities

### SECONDARY PROGRAM COMPONENTS (CTE courses are designated in **Boldface font**; state-required assessments are show in ***Boldface-italic font***)

<b>9<sup>th</sup> Grade</b>		<b>10<sup>th</sup> Grade</b>		<b>11<sup>th</sup> Grade</b>		<b>12<sup>th</sup> Grade</b>	
<i>PEAKS</i> , Career Clusters Interest Inventory, AKCIS Portfolio, PLCP		<i>PEAKS</i> , Career Interest Inventory, AKCIS Portfolio, PLCP		WorkKeys, PSAT, SAT, ACT, Accuplacer/Compass, AKCIS Portfolio, PLCP		SAT, ACT, WorkKeys, Accuplacer/Compass, AKCIS Portfolio, PLCP	
<b>Courses</b>		<b>Courses</b>		<b>Courses</b>		<b>Courses</b>	
<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>	<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>	<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>	<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>
English 9 or English 9 Honors	English 9 or English 9 Honors	English 10 or English 10 Honors	English 10 or English 10 Honors	Early American Literature or English 11 Honors	Modern American Literature or Advanced Composition	British Literature or UAF's Writing 111	World Literature, Journalism, or Speech & Debate
Earth and Space Science or Biology	Earth and Space Science or Biology	Biology, Chem Tech, or Chemistry	Biology, Chem Tech, or Chemistry	Chemistry or Human Anatomy	Chemistry or Intro to Pathophysiology	Physics or Marine Biology	Physics or Microbiology/ Botany
Careers & Employability	Alaska Studies	World History	World History	US History	US History	Government	Economics
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Functions & Analysis	Trigonometry
Health	PE	PE	PE	Psychology or <b>Human Behavior in Health Care</b>	<b>Personal Relationships</b>	<b>Math in Healthcare</b>	<b>Law &amp; Ethics for Health Professional</b>
<b>Introduction to Healthcare Occupations</b>	<b>First Aid/CPR &amp; Health Careers Exploration</b>	<b>Nutrition in Health Care</b>	<b>Professionalism in Health Care</b>	<b>Medical Terminology 1A</b>	<b>Medical Terminology 1B</b>	<b>Pharmacy Technician</b>	<b>Certified Nursing Assistant</b>
Technical Skills Assessment(s) AHA BLS (CPR), OSHA 10-Healthcare, Blood Borne Pathogens		Technical Skill Assessment(s) Alaska Food Handler's Exam FEMA 106.18, HIPAA Training		Technical Skills Assessment(s) HOSA- Medical Terminology		Technical Skill Assessment(s) CNA State Exam Pharmacy Tech Exam	

### OPTIONAL PROGRAM COMPONENTS

Work-Based Learning Opportunities	Career-Technical Student Organizations	Certifications
Apprenticeship Cooperative Education Job Shadowing Paid/Unpaid Internship School-Based Enterprise Service Learning	Health Occupations Students of America (HOSA) – Future Health Professionals	CPR/ First Aid, CNA, Pharmacy Tech Blood Borne Pathogens, HIPAA Training FEMA Trainings, AK Food Handler's card

### GENERAL POSTSECONDARY OPTIONS

One or Two-Year Postsecondary Programs	Adult Registered Apprenticeships	Four-Year College and University Programs	Occupational Certifications & License	On the Job Training, Skill Training Certificates, etc,
<ul style="list-style-type: none"> <li>Dental Assistant AAS</li> <li>Medical Assistant AAS</li> <li>Registered Nurse AAS</li> <li>Radiologic Technologist AAS</li> <li><a href="http://www.ctc.uaf.alaska.edu">www.ctc.uaf.alaska.edu</a></li> <li>Medical Laboratory Tech AAS</li> <li>Human Services AAS</li> </ul>	<ul style="list-style-type: none"> <li><a href="http://www.jobs.state.ak.us/apprentice">www.jobs.state.ak.us/apprentice</a></li> <li><a href="http://www.nursing.uaa.alaska.edu">www.nursing.uaa.alaska.edu</a></li> <li><a href="http://www.akfoodhandlers.com">www.akfoodhandlers.com</a></li> </ul>	<ul style="list-style-type: none"> <li>Medical Technology BS</li> <li>Nursing BS</li> <li>Health Sciences BSHS</li> <li>Human Services BHS</li> <li>Social Work BSW, MSW</li> <li>Psychology BA, BS</li> <li>Public Health Practice MPH</li> <li>Clinical Psychology MS</li> <li><a href="http://www.nursing.uaa.alaska.edu">www.nursing.uaa.alaska.edu</a></li> </ul>	<ul style="list-style-type: none"> <li>Dental Assistant</li> <li>Medical Assistant</li> <li>Phlebotomist</li> <li>Medical/Dental Reception</li> <li>Clinical Assistant</li> <li>Healthcare Reimbursement</li> </ul>	<ul style="list-style-type: none"> <li>OSHA</li> <li>FEMA</li> <li>CNA</li> <li>Medical Billing</li> <li>Medical Coding</li> <li>Medical Office Reception</li> <li>Conflict Resolution</li> <li>Community Health Worker</li> </ul>

## Program of Study- Allied Health & Pre-Nursing (Associate's Degree)

Career Cluster & Pathway Description: Health Science – Allied Health & Pre-Nursing		Developed By: Suzy Coronel, Andrea Gelvin, & Melissa Sawchuk    Date: 2017	
Specific Postsecondary Details (OPTIONAL) (Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)			
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College			
Name of Postsecondary Program: Associates of Applied Science: Medical Assistant Program			
Year 13		Year 14	
Semester 1	Semester 2	Semester 1	Semester 2
Writing Across Contexts WRTG F111X (3 credits) or <b>H.S. - AP English Language &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits) or <b>H.S. - AP English Literature &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits)	Fundamentals of Communications COJO F131X or F141X (3 credits)	Administrative Procedures II HLTH 234 (4 credits)	<b>Professional Skills for the Workplace</b> HLTH 110 (2 credits) <b>CTEK 116</b>
<b>Medical Terminology</b> HLTH 100 (3 credits) <b>CTEK102-103</b>	<b>Math in Health Care</b> HLTH 116 (3 credits) <b>CTEK112</b>	Clinical Procedures II MA 244 (4 credits)	Writing & the Humanities WRTG F211X (3 credits) or Writing & the Sciences WRTG F213X (3 credits)
<b>Intro to Health Careers</b> HLTH 105 (2 credits) <b>CTEK128</b>	Human Behavior in Health Care HLTH 106 (3 credits)	Human Diseases HLTH 208 (3 credits)	Business Communications ABUS 271 (3 credits)
<b>Computer Business Applications</b> CIOB 150 (3 credits) <b>CTEK105</b>	Administrative Procedures I HLTH 132 (2 credits)	Outpatient Health Care Reimbursement HLTH 236 (3 credits)	Medical Assisting Practicum MA 268 (4 credits)
Medical Law & Ethics HLTH 118 (2 credits)	Clinical Procedures I MA 142 (4 credits)	<b>Introduction to Pharmacology</b> MA 247 (2 credits) or <b>Pharmacy Technician CTEK130</b>	
Fundamentals of Anatomy & Physiology HLTH 114 (4 credits)	<b>First Aid/CPR</b> HLTH 122 <b>CTEK136</b>		
<b>17 Credits</b>	<b>15 credits</b>	<b>16 Credits</b>	<b>12 Credits</b>

**Outcome: AAS Medical Assistant (Student is eligible to take the National- American Associations of Medical Assistant's Exam.)**

**Total Credits: 60**

Possible number of completed credits from high school career program: 15

## Program of Study- Allied Health & Pre-Nursing (Medical Assistant Certificate Program)

Career Cluster & Pathway Description: Health Science – Allied Health & Pre-Nursing		Developed By: Suzy Coronel, Andrea Gelvin, & Melissa Sawchuk     Date: 2017	
Specific Postsecondary Details (OPTIONAL) (Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)			
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College			
Name of Postsecondary Program: Medical Assistant Certificate Program			
Year 13		Year 14	
Semester 1	Semester 2	Semester 1	Semester 2
Writing Across Contexts WRTG F111X (3 credits) or <b>H.S. - AP English Language &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits) or <b>H.S. - AP English Literature &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits)	<b>Math in Health Care</b> HLTH 116 (3 credits) <b>CTEK112</b>	Administrative Procedures II HLTH 234 (4 credits)	
<b>Medical Terminology</b> HLTH 100 (3 credits) <b>CTEK102-103</b>	Human Behavior in Health Care HLTH 106 (3 credits) <b>CTEK137</b>	Clinical Procedures II MA 244 (4 credits)	
<b>First Aide/CPR</b> HLTH 122 <b>CTEK136</b> or current First Aid/CPR Card	Administrative Procedures I HLTH 132 (2 credits)	Medical Assisting Practicum MA 268 (4 credits)	
<b>Computer Business Applications</b> CIOS 150 (3 credits) <b>CTEJ105</b>	Clinical Procedures I MA 142 (4 credits)		
Medical Law & Ethics HLTH 118 (2 credits)	Introduction to Pharmacology MA 247 (2 credits)		
Fundamentals of Anatomy & Physiology HLTH 114 (4 credits)			
<b>15 Credits</b>	<b>14 credits</b>	<b>12 Credits</b>	

**Outcome: Medical Assistant Certificate (Student is eligible to take the National- American Associations of Medical Assistant's Exam.)**

**Total Credits: 41**

Possible number of completed credits from high school career program: 9

## Program of Study- Allied Health & Pre-Nursing (Pre-Nursing Certificate Program)

Career Cluster & Pathway Description: Health Science – Allied Health & Pre-Nursing		Developed By: Suzy Coronel, Andrea Gelvin, & Melissa Sawchuk    Date: 2017	
Specific Postsecondary Details (OPTIONAL) (Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)			
Name of Postsecondary Partner: University of Alaska Fairbanks			
Name of Postsecondary Program: Pre-Nursing Certificate Program			
Year 13		Year 14	
Semester 1	Semester 2	Semester 1	Semester 2
Writing Across Contexts WRTG F111X (3 credits) or <b>H.S. - AP English Language &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits) or <b>H.S. - AP English Literature &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits)	Writing & the Humanities WRTG 211X (3 credits)		
Fundamentals of Oral Communication COJO 131X or 141X (3 credits)	<b>Math in Health Care</b> HLTH 116 (3 credits) <b>CTEK112</b>		
Science of Nutrition HLTH 203 (3 credits)	Beginnings of Microbiology BIO 240 (4 credits)		
Human Behavior in Health Care HLTH 106 (3 credits)	Psychology of Development PSY 240 (3 credits)		
Introduction to Psychology PSY 101X (3 credits)	<b>Certified Nursing Assistant</b> HLTH 107 (9 credits) <b>CTEK 106-107</b> or <b>Emergency Medical Technician I</b> EMS 170 (6 credits) <b>CTEK120-121</b>		
Human Anatomy & Physiology BIOL 213 (4 credits)			
<b>19 Credits</b>	<b>19 or 22 credits</b>		

### Outcome: Pre-Nursing Certificate

**Total Credits: 38 or 41**

Possible number of completed credits from high school career program: 9

# Program of Study- Biomedical Science

Career Cluster & Pathway Description: Health Science – Biomedical Science		Developed By: Joni Simpson	Date: 2017
Middle School Exploratory Options (OPTIONAL)			
<b>6th</b> AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities	<b>7th</b> Career Clusters Interest Inventory AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities	<b>8th</b> AKCIS Jr. Portfolio + HS Course Planner Career Interest Inventory Other Career Guidance/Planning/Information Activities	

## SECONDARY PROGRAM COMPONENTS (CTE courses are designated in **Boldface font**; state-required assessments are show in *Boldface-italic font*)

9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
<i>PEAKS</i> , Career Clusters Interest Inventory, AKCIS Portfolio, PLCP		<i>PEAKS</i> , Career Interest Inventory, AKCIS Portfolio, PLCP		WorkKeys, PSAT, SAT, ACT, Accuplacer/Compass, AKCIS Portfolio, PLCP		SAT, ACT, WorkKeys, Accuplacer/Compass, AKCIS Portfolio, PLCP	
Courses		Courses		Courses		Courses	
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
English 9 or English 9 Honors	English 9 or English 9 Honors	English 10 or English 10 Honors or Analysis of Literature	English 10 or English 10 Honors or College Preparatory Composition	American Literature or AP English Language & American Literature	English Elective or AP English Language & American Literature	British Literature or AP Literature & Composition	Non-fiction Writing or AP Literature & Composition
Honors Biology A or <b>Principles of Biomedical Sciences A</b>	Honors Biology B or <b>Principles of Biomedical Sciences B</b>	Chemistry or <b>Human Body Systems A</b>	Chemistry or <b>Human Body Systems B</b>	AP Biology or <b>Medical Interventions A</b> or Human Anatomy & Physiology	AP Biology or <b>Medical Interventions B</b> or Forensic Science	AP Chemistry or <b>Biomedical Innovations A</b> or Introduction to Basic Pathophysiology	AP Chemistry or <b>Biomedical Innovations B</b> or Microbiology & Botany
Alaska Studies		World History 1 or World History Honors 1	World History 2 or World History Honors 2	Recent US History or AP US History	Recent US History or AP US History	American Government or AP US Government & Politics	Economics or AP Economics
Geometry or STEM Geometry (Honors)	Geometry or STEM Geometry (Honors)	Algebra II or STEM Algebra II (Honors)	Algebra II or STEM Algebra II (Honors)	Functions & Analysis	Trigonometry	AP Calculus A/B or Math Elective	AP Calculus B/C or Math Elective
Health	Physical Education	Physical Education	Physical Education				
<b>Intro to Healthcare Occupations</b>	<b>First Aid/CPR &amp; Health Careers Exploration</b>	Forensic Science	Forensic Science, Advanced	<b>Medical Terminology 1A</b>	<b>Medical Terminology 1B</b>	AP Statistics or Physics	AP Statistics or Physics

### OPTIONAL PROGRAM COMPONENTS

Work-Based Learning Opportunities	Career-Technical Student Organizations	Certifications
Apprenticeship Cooperative Education Job Shadowing Paid/Unpaid Internship School-Based Enterprise Service Learning	Health Occupations Students of America (HOSA) – Future Health Professionals	CPR/ First Aid, CNA, Pharmacy Tech

### GENERAL POSTSECONDARY OPTIONS

One or Two-Year Postsecondary Programs	Adult Registered Apprenticeships	Four-Year College and University Programs	Postgraduate Programs	On the Job Training, Skill Training Certificates, etc,
<ul style="list-style-type: none"> <li>• Dental Assistant AAS</li> <li>• Medical Assistant AAS</li> <li>• Registered Nurse AAS</li> <li>• Radiologic Technologist AAS</li> <li>• <a href="http://www.ctc.uaf.alaska.edu">www.ctc.uaf.alaska.edu</a></li> <li>• Medical Laboratory Tech AAS</li> <li>• Human Services AAS</li> <li>• Veterinarian Technician</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="http://www.jobs.state.ak.us/apprentice">www.jobs.state.ak.us/apprentice</a></li> <li>• <a href="http://www.nursing.uaa.alaska.edu">www.nursing.uaa.alaska.edu</a></li> <li>• <a href="http://www.akfoodhandlers.com">www.akfoodhandlers.com</a></li> </ul>	<ul style="list-style-type: none"> <li>• Medical Technology BS</li> <li>• Nursing BS</li> <li>• Health Sciences BSHS</li> <li>• Human Services BHS</li> <li>• Social Work BSW, MSW</li> <li>• Psychology BA, BS</li> <li>• Public Health Practice MPH</li> <li>• Clinical Psychology MS</li> <li>• <a href="http://www.nursing.uaa.alaska.edu">www.nursing.uaa.alaska.edu</a></li> </ul>	<ul style="list-style-type: none"> <li>• Anesthesiology MD, DO</li> <li>• Chiropractic DC</li> <li>• Dentistry DDS, DMD</li> <li>• Nursing MSN</li> <li>• Pharmacist</li> <li>• Physician MD</li> <li>• Physical Therapy MPT, DPT</li> <li>• Psychiatry MD</li> <li>• Veterinary Medicine DVM</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA</li> <li>• FEMA</li> <li>• CNA</li> <li>• Conflict Resolution</li> <li>• Community Health Worker</li> <li>• Blood Borne Pathogens</li> <li>• HIPAA Training</li> <li>• AK Food Handler's Card</li> </ul>

## Program of Study- Biomedical Science (Pre-Medicine)

Career Cluster & Pathway Description: Health Science- Biomedical – Pre-Medicine		Developed By: Joni Simpson Date: 2017	
Specific Postsecondary Details (OPTIONAL) (Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)			
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College			
Name of Postsecondary Program: Pre-Medicine/ Pre-Veterinary Science			
Year 13		Year 14	
Semester 1	Semester 2	Semester 1	Semester 2
Writing Across Contexts WRTG F111X (3 credits) or <b>H.S. - AP English Language &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits) or <b>H.S. - AP English Literature &amp; Composition</b> (If meets university qualifications, equivalent to WRTG F111X = 3 credits)	Writing & the Sciences WRTG F213X (3 credits)		
Option 1	Calculus Essentials with Applications MATH F230X (3 credits) or Elementary Probability & Statistics STAT F200X (3 credits)		
Option 2	Calculus I Math F251X (4 credits)	Calculus II MATH F252X (4 credits)	
Option 3	<b>H.S. – AP Calculus A/B</b> (If meets university qualifications, equivalent to MATH F251X = 4 credits)	<b>H.S. – AP Calculus B/C</b> (If meets university qualifications, equivalent to MATH F251X & MATH F252X = 8 credits)	
General Chemistry I CHEM F105X (4 credits) <b>AP Chemistry SC025/026</b> (If meets university qualifications, equivalent to CHEM F105X & CHEM F106X = 8 credits)	General Chemistry II CHEM F106X (4 credits)		
Fundamentals of Biology I BIOL F115X (4 credits) <b>AP Biology SC007/008</b> (If meets university qualifications, equivalent to BIOL F115X & BIOL F116X = 8 credits)	Fundamentals of Biology II BIOL F116X (4 credits)		
Introduction to Psychology PSY F101X (3 credits)	Individual, Society, & Culture ANTH F100X (3 credits)		
31 – 40 credits			
Total Credits: 31 – 40 credits Possible number of completed credits from high school career program: 31			

## Program of Study – Biomedical Science (Paramedic)

Career Cluster & Pathway Description: Health Science – Biomedical -- Paramedic				Developed By: Joni Simpson Date: 2017	
Specific Postsecondary Details (OPTIONAL)					
(Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)					
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College					
Name of Postsecondary Program: Paramedicine					
Year 13			Year 14		
Semester 1		Semester 2	Semester 1		Semester 2
Writing Across Contexts WRTG F111X (3 credits) <b>H.S. - AP English Language &amp; Composition</b> Scored a 4 or higher (Equivalent to WRTG F111X = 3 credits) OR <b>H.S. - AP English Literature &amp; Composition</b> Scored a 4 or higher (Equivalent to WRTG F111X = 3 credits)		Business Communications ABUS F271 (3 credits)	Paramedicine II EMS F282 (12 credits; This course can take more than one semester to complete)		
Mathematics in Health Care HLTH F116 (3 credits) <b>CTEK112</b>		Human Behavior in Health Care HLTH F106 (3 credits) <b>CTEK137</b>	Paramedicine Internship EMS F283 (12 credits; This course can take more than one semester to complete)		
Clinical Rotation I EMS F181 (4 credits)		Clinical Rotation II EMS F183 (4 credits)	Fundamentals of Human Anatomy & Physiology HLTH F114 (4 credits)		
Paramedicine I EMS F280 (12 credits; This course can take more than one semester to complete)					
32 credits			28 credits		

### Total Credits: 60

Possible number of completed credits from high school career program: 6

## Program of Study- Certified Nursing Assistant

**CERTIFIED NURSING ASSISTANT:** Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development (see [www.careerclusters.org](http://www.careerclusters.org)).

**Major Career Options:** CNA, Dental Assistant, Pharmacy Technician, Chiropractor, Radiologist, Pharmacist, Veterinarian, Doctor, Occupational Therapist, Paramedic, Registered Nurse, and Physical Therapist

**SECONDARY PROGRAM COMPONENTS** (CTE courses are designated in **Boldface font**; state-required assessments are show in **Boldface-italic font**)

9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
<i>PEAKS</i> , Career Clusters Interest Inventory, AKCIS Portfolio, PLCP		<i>PEAKS</i> , Career Interest Inventory, AKCIS Portfolio, PLCP		WorkKeys, PSAT, SAT, ACT, Accuplacer/Compass, AKCIS Portfolio, PLCP		SAT, ACT, WorkKeys, Accuplacer/Compass, AKCIS Portfolio, PLCP	
Courses		Courses		Courses		Courses	
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
English 9	English 9	English 10	English 10	American Lit	English Elective	British Lit	English Elective
Algebra 1	Algebra 1	Geometry	Geometry	Algebra II	Algebra II	Math Elective	Math Elective
Biology	Biology	Chemistry	Chemistry	Human Anatomy	Introduction to Pathophysiology	Science Elective	Science Elective
Health	PE	PE	PE	Psychology	<b>Personal Relationships</b>	<b>Math in Health Care</b>	<b>Law &amp; Ethics for Health Professionals</b>
<b>Careers &amp; Employability</b>	Alaska Studies	World History	World History	US History	US History	American Government	Economics
<b>Introduction to Healthcare Occupations</b>	<b>First Aid/CPR &amp; Health Careers Exploration</b>	<b>Nutrition in Health Care</b>	<b>Professionalism in Health Care</b>	<b>Medical Terminology 1A</b>	<b>Medical Terminology 1B</b>	<b>Pharmacy Technician</b>	<b>Certified Nursing Assistant</b>

### OPTIONAL PROGRAM COMPONENTS

Work-Based Learning Opportunities	Career-Technical Student Organizations	Certifications
Cooperative Education      Job Shadowing Pre-Apprenticeship	Health Occupations Students of America (HOSA) – Future Health Professionals	First Aide & CPR, Certified Nursing Assistant (CNA)

### GENERAL POSTSECONDARY OPTIONS

One or Two-Year Postsecondary Programs	Four-Year College & University Programs	Occupational Certifications & Licenses	On the Job Training, Skill Training Certificates, etc.
<ul style="list-style-type: none"> <li>• UAF/CTC, AVTEC</li> <li>• AAS in Dental Assistant, Medical Assistant, Registered Nurse, Radiological Technician, Nursing, Medical Laboratory Tech, Human Services</li> </ul>	<ul style="list-style-type: none"> <li>• BS in Nursing, Medical Technology, Psychology</li> <li>• BSHS in Health Services</li> <li>• BHS in Human Services</li> <li>• BSW in Social Work</li> </ul>	<ul style="list-style-type: none"> <li>• Medical/Dental Assistant</li> <li>• Clinical Assistant</li> <li>• Health Care Reimbursement Assistant</li> <li>• Phlebotomist</li> <li>• Medical/Dental Receptionist</li> </ul>	<ul style="list-style-type: none"> <li>• Nurse Aide</li> <li>• Medical Coding &amp; Billing</li> <li>• Medical/Dental Office Reception</li> </ul>

## Program of Study- Emergency Medical Technician

**EMERGENCY MEDICAL TECHNICIAN:** Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development (see [www.careerclusters.org](http://www.careerclusters.org)).

**Major Career Options:** Rescue Worker, Emergency Medical Technician, Emergency Planning Manager, Emergency Management & Response Team, Training Officer, Emergency Dispatcher, Ambulance Driver, and Fire Department & Emergency Service Administrator

**SECONDARY PROGRAM COMPONENTS** (CTE courses are designated in **Boldface font**; state-required assessments are show in **Boldface-italic font**)

9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
<i>PEAKS</i> , Career Clusters Interest Inventory, AKCIS Portfolio, PLCP		<i>PEAKS</i> , Career Interest Inventory, AKCIS Portfolio, PLCP		WorkKeys, PSAT, SAT, ACT, Accuplacer/Compass, AKCIS Portfolio, PLCP		SAT, ACT, WorkKeys, Accuplacer/Compass, AKCIS Portfolio, PLCP	
Courses		Courses		Courses		Courses	
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
English 9	English 9	English 10	English 10	American Lit/Eng 11	English Elective	British Lit/Eng 12	English Elective
Algebra 1	Algebra 1	Geometry	Geometry	Algebra II	Algebra II	Math Elective	Math Elective
Biology	Biology	Chemistry	Chemistry	Human Anatomy	Introduction to Pathophysiology	Science Elective	Science Elective
Health	PE	PE	PE	Psychology	<b>Personal Relationships</b>	<b>Introduction to Fire Services 1A</b>	<b>Introduction to Fire Services 1B</b>
<b>Careers &amp; Employability</b>	Alaska Studies	World History	World History	US History	US History	American Gov't	Economics
<b>Introduction to Healthcare Occupations</b>	<b>First Aid/CPR &amp; Health Careers Exploration</b>	<b>Nutrition in Health Care</b>	<b>Professionalism in Health Care</b>	<b>Medical Terminology 1A</b>	<b>Medical Terminology 1B</b>	<b>Emergency Medical Technician 1A</b>	<b>Emergency Medical Technician 1B</b>

### OPTIONAL PROGRAM COMPONENTS

Work-Based Learning Opportunities	Career-Technical Student Organizations	Certifications
	HOSA – Future Health Professionals	EMT 1

### GENERAL POSTSECONDARY OPTIONS

One or Two-Year Postsecondary Programs	Four-Year College and University Programs	Occupational Certifications & License	On the Job Training, Skill Training Certificates, etc,
<ul style="list-style-type: none"> <li>• UAF/CTC, AVTEC</li> <li>• AAS in Emergency Services, Fire &amp; Emergency Service Technology</li> <li>• Wildland Firefighting</li> </ul>	<ul style="list-style-type: none"> <li>• BEM in Emergency Management</li> </ul>	<ul style="list-style-type: none"> <li>• EMT 1</li> <li>• EMT 2</li> <li>• EMT 3</li> <li>• Paramedic</li> <li>• Firefighter I</li> <li>• Firefighter II</li> <li>• Red Card</li> </ul>	

## Program of Study- Emergency Services

Career Cluster & Pathway Description: Health Science – Emergency Services			Developed By: Suzy Coronel, Andrea Gelvin, & Melissa Sawchuk
Middle School Exploratory Options (OPTIONAL)			Date: 2017
<b>6th</b> AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities	<b>7th</b> Career Clusters Interest Inventory AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities	<b>8th</b> AKCIS Jr. Portfolio + HS Course Planner Career Interest Inventory Other Career Guidance/Planning/Information Activities	

### SECONDARY PROGRAM COMPONENTS (CTE courses are designated in **Boldface font**; state-required assessments are show in *Boldface-italic font*)

9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
<i>PEAKS</i> , Career Clusters Interest Inventory, AKCIS Portfolio, PLCP		<i>PEAKS</i> , Career Interest Inventory, AKCIS Portfolio, PLCP		WorkKeys, PSAT, SAT, ACT, Accuplacer/Compass, AKCIS Portfolio, PLCP		SAT, ACT, WorkKeys, Accuplacer/Compass, AKCIS Portfolio, PLCP	
Courses		Courses		Courses		Courses	
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
English 9 or English 9 Honors	English 9 or English 9 Honors	English 10 or English 10 Honors	English 10 or Analysis of Literature	Early American Literature or English 11 Honors	Modern American Literature or Advanced Composition	British Literature or UAF's Writing 111	World Literature, Journalism, or Speech & Debate
Earth and Space Science or Biology	Earth and Space Science or Biology	Biology, Chem Tech, or Chemistry	Biology, Chemistry, or Adv Forensics	Chemistry or Human Anatomy	Chemistry or Intro to Pathophysiology	Physics or Marine Biology	Physics or Microbiology/ Botany
<b>Computer Applications</b>	Alaska Studies	World History	World History	US History	US History	Government	Economics
Algebra I	Algebra I	Geometry	Geometry	Algebra II or Math Elective	Algebra II or <b>Math in Healthcare</b>	Functions & Analysis, AP Calculus AB, or AP Calculus BC	Functions & Analysis, AP Calculus AB, or AP Calculus BC
Health	PE	PE	PE	Psychology or <b>Human Behavior in Health Care</b>	<b>Personal Relationships</b>	<b>Introduction to Fire Services 1A</b>	<b>Introduction to Fire Services 1B</b>
<b>Introduction to Healthcare Occupations</b>	<b>First Aid/CPR &amp; Health Careers Exploration</b>	<b>Nutrition in Health Care</b>	<b>Professionalism in Health Care</b>	<b>Medical Terminology 1A</b>	<b>Medical Terminology 1B</b>	<b>Emergency Technician 1A</b>	<b>Emergency Technician 1B</b>
Technical Skills Assessment(s) AHA BLS (CPR), Blood Borne Pathogens, OSHA, FEMA		Technical Skill Assessment(s) Alaska Food Handler's Exam HIPAA		Technical Skills Assessment(s) HOSA- Medical Terminology		Technical Skill Assessment(s) EMT1	

### OPTIONAL PROGRAM COMPONENTS

Work-Based Learning Opportunities	Career-Technical Student Organizations	Certifications
Apprenticeship Cooperative Education Job Shadowing Paid/Unpaid Internship School-Based Enterprise Service Learning	Health Occupations Students of America (HOSA) – Future Health Professionals	EMT1 BLS-CPR Alaska Food Handler's Card

### GENERAL POSTSECONDARY OPTIONS

One or Two-Year Postsecondary Programs	Adult Registered Apprenticeships	Four-Year College and University Programs	Occupational Certifications & License	On the Job Training, Skill Training Certificates, etc,
<ul style="list-style-type: none"> <li>Emergency Services AAS</li> <li><a href="http://www.ctc.uaf.edu/programs/emergency">www.ctc.uaf.edu/programs/emergency</a></li> <li>Fire &amp; Emergency Services Technology AAS</li> <li>Options:               <ul style="list-style-type: none"> <li>Fire Administration</li> <li>Emergency Medical Services</li> <li>Wildland Firefighting</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><a href="http://www.jobs.state.ak.us/apprentice">www.jobs.state.ak.us/apprentice</a></li> </ul>	<ul style="list-style-type: none"> <li>Emergency Management, BEM</li> <li><a href="http://www.uaf.edu.som/programs/bem/">www.uaf.edu.som/programs/bem/</a></li> </ul>	<ul style="list-style-type: none"> <li>EMT1</li> <li>Firefighter</li> </ul>	<ul style="list-style-type: none"> <li>OSHA</li> <li>FEMA</li> <li>Advancement to EMT2, EMT3</li> <li>Advancement to FF II</li> </ul>

## Program of Study- Emergency Services (Postsecondary)

Career Cluster & Pathway Description: Health Science – Emergency Services		Developed By: Suzy Coronel, Andrea Gelvin, & Melissa Sawchuk		Date: 2017
Specific Postsecondary Details (OPTIONAL)				
(Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)				
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College				
Name of Postsecondary Program: Fire Science				
Year 13		Year 14		
Semester 1	Semester 2	Semester 1	Semester 2	
Writing Across Contexts WRTG F111X (3 credits) <b>H.S. - AP English Language &amp; Composition</b> Scored a 4 or higher (Equivalent to WRTG F111X = 3 credits) OR <b>H.S. - AP English Literature &amp; Composition</b> Scored a 4 or higher (Equivalent to WRTG F111X = 3 credits)	Introduction to Hazardous Waste Operations & Emergency Response FIRE 110 (3 credits)	Introduction to Interpersonal Communication COJO F121 (3 credits)	Academic Writing about the Social & Natural Sciences WRTG 213 (3 credits)	
<b>Emergency Medical Technician I</b> EMS 170 (6 credits) CTEK 120-121	Fire Behavior & Combustion FIRE 121 (3 credits)	Hazardous Materials Chemistry I FIRE 203 (3 credits)	Hazardous Materials Technician FIRE 207 (3 credits)	
Principles of Emergency Services FIRE 101 (3 credits) <b>Intro to Fire Services A/B</b> CTEK126-127	Firefighter I, Series I FIRE 131 (3 credits)	Building & Fire Codes FIRE 212 (3 credits)	Advanced Hazardous Materials Technician FIRE 215 (3 credits)	
Human Behavior in Health Care HLTH 106 (3 credits)	Firefighter I, Series II FIRE 133 (3 credits)	Fire Administration I FIRE 210 (3 credits)	Methods of Instruction for Emergency Services Training FIRE 216 (3 credits)	
<b>Math in Health Care</b> HLTH 116 (3 credits) CTEK112	Firefighter I, Series III FIRE 135 (3 credits)	Emergency Services, Safety, Health, & Survival FIRE 220 (3 credits)	Special Topics FIRE 293 (3 credits)	
	Firefighter I, Series IV FIRE 137 (3 credits)			
18 Credits	18 credits	15 Credits	15 Credits	

Outcome (Resulting in Certificate, Credential, or Degree):
<b>Total Credits: 66</b> Possible number of completed credits from high school career program: 12

# Program of Study- Medical Front Office Representative

<b>Career Cluster &amp; Pathway Description: Health Science – Medical Front Office Representative</b>			<b>Developed By:</b> Joni Simpson	<b>Date:</b> 2017
<b>Middle School Exploratory Options (OPTIONAL)</b>				
<b>6th</b> AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities		<b>7th</b> Career Clusters Interest Inventory AKCIS Jr. Portfolio Other Career Guidance/Planning/Information Activities		<b>8th</b> AKCIS Jr. Portfolio + HS Course Planner Career Interest Inventory Other Career Guidance/Planning/Information Activities

## SECONDARY PROGRAM COMPONENTS (CTE courses are designated in **Boldface font**; state-required assessments are show in **Boldface-italic font**;

<b>9<sup>th</sup> Grade</b>		<b>10<sup>th</sup> Grade</b>		<b>11<sup>th</sup> Grade</b>		<b>12<sup>th</sup> Grade</b>	
<i>PEAKS</i> , Career Clusters Interest Inventory, AKCIS Portfolio, PLCP		<i>PEAKS</i> , Career Interest Inventory, AKCIS Portfolio, PLCP		WorkKeys, PSAT, SAT, ACT, Accuplacer/Compass, AKCIS Portfolio, PLCP		SAT, ACT, WorkKeys, Accuplacer/Compass, AKCIS Portfolio, PLCP	
<b>Courses</b>		<b>Courses</b>		<b>Courses</b>		<b>Courses</b>	
<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>	<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>	<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>	<b>1<sup>st</sup> Semester</b>	<b>2<sup>nd</sup> Semester</b>
English 9 or English 9 Honors	English 9 or English 9 Honors	English 10 or English 10 Honors	English 10 or English 10 Honors	Early American Literature or English 11 Honors	Modern American Literature or Advanced Composition	British Literature, AP Literature & Composition, or UAF's Writing 111	World Literature, Journalism or Speech & Debate
Earth and Space Science or Biology	Earth and Space Science or Biology	Biology, Chem Tech, or Chemistry	Biology, Chem Tech, or Chemistry	Chemistry or Human Anatomy	Chemistry or Intro to Pathophysiology	Physics or Marine Biology	Physics or Microbiology/ Botany
Careers & Employability	Alaska Studies	World History	World History	US History	US History	Government	Economics
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Functions & Analysis or <b>Math in Healthcare</b>	Trigonometry
Health	PE	PE	PE	<b>Medical Terminology 1A</b>	<b>Medical Terminology 1B</b>	<b>High School Internship, Independent Research,</b> or UAF's Administrative Procedures II (HLTH 234)	UAF's Medical/Dental Office Receptionist Practicum (HLTH 261)
<b>Introduction to Healthcare Occupations</b>	<b>First Aid/CPR &amp; Health Careers Exploration</b>	<b>Computer Applications</b>	<b>Professionalism in Health Care</b>	<b>Law &amp; Ethics for Health Professional</b>	<b>High School Internship, Independent Research,</b> or UAF's Administrative Procedures I (HLTH 132)	<b>Human Behavior in Health Care</b>	UAF's Outpatient Health Care Reimbursement (HLTH 236)
Technical Skills Assessment(s) AHA BLS (CPR), OSHA 10-Healthcare, Blood Borne Pathogens		Technical Skill Assessment(s) HIPAA Training		Technical Skills Assessment(s) HOSA- Medical Terminology		Technical Skill Assessment(s) Medical Office Receptionist: Occupational Endorsement or Certificate	

### OPTIONAL PROGRAM COMPONENTS

Work-Based Learning Opportunities	Career-Technical Student Organizations	Certifications
Apprenticeship Cooperative Education Job Shadowing Paid/Unpaid Internship School-Based Enterprise Service Learning	Health Occupations Students of America (HOSA) – Future Health Professionals	CPR/ First Aid, Blood Borne Pathogens, HIPAA Training

### GENERAL POSTSECONDARY OPTIONS

One or Two-Year Postsecondary Programs	Adult Registered Apprenticeships	Four-Year College and University Programs	Occupational Certifications & License	On the Job Training, Skill Training Certificates, etc,
<ul style="list-style-type: none"> <li>Medical Office Receptionist (Occupational Endorsement or Certificate)</li> <li>Dental Office Receptionist (Certificate)</li> </ul>	<ul style="list-style-type: none"> <li><a href="http://www.jobs.state.ak.us/apprentice">www.jobs.state.ak.us/apprentice</a></li> </ul>	<ul style="list-style-type: none"> <li>Medical Technology BS</li> <li>Health Sciences BSHS</li> </ul>	<ul style="list-style-type: none"> <li>Dental Assistant</li> <li>Medical Assistant</li> <li>Phlebotomist</li> <li>Medical/Dental Reception</li> <li>Clinical Assistant</li> <li>Healthcare Reimbursement</li> </ul>	<ul style="list-style-type: none"> <li>OSHA</li> <li>FEMA</li> <li>Medical Billing</li> <li>Medical Coding</li> <li>Medical Office Reception</li> <li>Conflict Resolution</li> <li>Community Health Worker</li> </ul>

## Program of Study- Medical Front Office Representative (Occupational Endorsement)

Career Cluster & Pathway Description: Health Science – Medical Front Office Representative		Developed By: Joni Simpson    Date: 2017	
Specific Postsecondary Details (OPTIONAL) (Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)			
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College			
Name of Postsecondary Program: Medical Office Reception Occupational Endorsement			
Year 13		Year 14	
Semester 1	Semester 2	Semester 1	Semester 2
Computer Business Applications CIOUS 150 (3 credits) CTEJ105			
Medical Terminology HLTH 100 (3 credits) CTEK102-103			
Professional Skills for the Workplace HLTH 110 (2 credits) CTEK 116			
Medical Law & Ethics HLTH 118 (2 credits)			
Administrative Procedures I HLTH 132 (2 credits)			
12 Credits			

<b>Outcome: Occupational Endorsement – Medical Office Reception</b>
<b>Total Credits: 12</b> Possible number of completed credits from high school career program: 8

## Program of Study- Medical/Dental Front Office Representative (Certificate)

Career Cluster & Pathway Description: Health Science – Medical Front Office Representative		Developed By: Joni Simpson Date: 2017	
Specific Postsecondary Details (OPTIONAL)			
(Classes possible to complete at high school level are designated by <b>BOLDFACE</b> .)			
Name of Postsecondary Partner: University of Alaska Fairbanks- Community & Technical College			
Name of Postsecondary Program: Medical/Dental Reception Certificate			
Year 13		Year 14	
Semester 1	Semester 2	Semester 1	Semester 2
Writing Across Contexts WRTG F111X (3 credits) <b>H.S. - AP English Language &amp; Composition</b> Scored a 4 or higher (Equivalent to WRTG F111X = 3 credits) or <b>H.S. - AP English Literature &amp; Composition</b> Scored a 4 or higher (Equivalent to WRTG F111X = 3 credits)	<b>Computer Business Applications</b> CIOS 150 (3 credits) <b>CTEJ105</b>	Administrative Procedures II HLTH 234 (4 credits)	
<b>Medical Terminology</b> HLTH 100 (3 credits) <b>CTEK102-103</b>	<b>Math in Health Care</b> HLTH 116 (3 credits) <b>CTEK112</b>	Medical/Dental Office Reception Practicum HLTH F261 (2 credits)	
Medical Law & Ethics HLTH 118 (2 credits)	Human Behavior in Health Care HLTH 106 (3 credits)		
<b>Professional Skills for the Workplace</b> HLTH 110 (2 credits) <b>CTEK 116</b>	<b>First Aid/CPR</b> HLTH 122 <b>CTEK136</b>		
Outpatient Health Care Reimbursement HLTH 236 (3 credits)	Administrative Procedures I HLTH 132 (2 credits)		
<b>13 Credits</b>	<b>10 Credits</b>	<b>6 Credits</b>	

<b>Outcome: Certificate – Medical/Dental Reception</b>
<b>Total Credits: 30</b>
Possible number of completed credits from high school career program: 14

