

APPENDIX A

Proposer(s): Paramedicine Program, NIR Department

1.1 – Program Overview: The proposed Emergency Medical Services Certificate (EMS Certificate) is intended to give EMS students a marketable credential for employment as an Emergency Medical Technician. The Certificate will contain support courses that will give recipients an edge when applying for employment by supplying them an advanced understanding of critical areas of EMS operations including documentation and communication, safe patient transport principle and tools to better help patients in emotional crisis. Students will also receive paramedic-level education in human anatomy and physiology, which is critical to proper patient care. It will ensure that new EMTs will have solid math and college-level writing skills.

The goal of the EMS Certificate is to make EMTs more employable. Many times EMTs leave school with the bare minimum of the 10 credits it takes to receive Oregon EMT licensure. Completion of this certificate program will give students the level of support skills and ancillary knowledge equivalent to those used by paramedics. With employment opportunities for EMTs growing fast, this added credential could make the difference in getting a job or just being another “also ran.”

The EMS Certificate will contain courses already offered at COCC. The courses involved are required before students are allowed to apply for our Paramedic Program and will not require the addition of any classes. We anticipate this will be a seamless addition to our existing curriculum. It is a bundling, of sorts, of related classes that will make EMTs more-complete caregivers. It will also allow them to smoothly transition into a paramedic program, at COCC or any other program in Oregon. Many colleges in Oregon offer this certificate. It is part of the “statewide curriculum” for EMS education.

The Certificate will contain 58-62 credits, depending on the courses taken by any given student. It will technically be considered a one-year certificate, but in reality, most students choose to complete the requirements across four to six quarters.

Course contained in proposed EMS Certificate:

- EMT 151 Emergency Medical Technician Part A 5 credits
- EMT 152 Emergency Medical Technician Part B 5 credits
- WR 121 English Composition 4 credits
- MTH 65 Algebra II or higher 4 credits
- FOR 211 Supervision and Leadership 3 credits
 - or BA 285 Business Human Relations 3 credits
- AH 111 Medical Terminology 3 credits
- BI 231 Human Anatomy and Physiology I 4 credits
- BI 232 Human Anatomy and Physiology II 4 credits
- BI 233 Human Anatomy and Physiology III 4 credits
- EMT 170 Emergency Response Communication and Documentation 2 credits

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- EMT 171 Emergency Response Patient Transport 2 credits
- SFS 101 Introduction to Emergency Services 4 credits
- EMT 195 Crisis Intervention 3 credits
- SFS 230 Rescue Practices 3 credits
- HHP 242 Stress Management 3 credits
 - or HHP 266 Nutrition for Health 3 credits
 - or HHP 295 Health and Fitness 3 credits
- SP 111 Fundamentals of Public Speaking or higher 3-4 credits
- EMS Electives 3-5 credits
 - Approved EMS electives: ANTH 103, CJ 100, OL 244, PSY 201, PSY 202, PSY 101, PSY 216, SOC 201, SOC 206, EMT 163, EMT 164

1.2 – Strategic Alignment: The proposed EMS Certificate is consistent with the COCC Mission and Vision statements:

- Mission - Central Oregon Community College promotes student success and community enrichment by providing quality, accessible, lifelong educational opportunities.
- Vision Statement - To achieve student success and community enrichment, COCC fosters student completion of academic goals, prepares students for employment, assists regional employers and promotes equitable achievement for the diverse students and communities we serve.

It also supports the College's Workforce Development Theme:

- Students of Career and Technical Education (CTE) programs will be prepared for employment and advanced education through the acquisition of knowledge and skills necessary to meet current industry needs.
 - WD.1 Maximize support services, from entrance to completion, to promote successful completion of CTE programs.
 - WD.2 Deliver CTE curriculum that aligns with current industry standards.
 - WD.3 Maintain and strengthen student opportunities in CTE programs for students to achieve program completion and employment in their area of study.
 - WD.4 Cultivate current and future industry partnerships and assist industry partners in regional economic development and job creation.
 - WD.5 Students in CTE programs will achieve the sought after credential and when applicable, continue on to attain career-specific certifications/licensure and/or advanced education.

1.3 – Employment Projections: Employment trends forecast higher than average growth in EMS employment in the foreseeable future. Data from both the state and federal governments follow:

State of Oregon Employment Department

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Employment in this occupation in 2014 was somewhat larger than the statewide average for all occupations. The total number of job openings is projected to be somewhat higher than the statewide average number of job openings for all occupations through 2024. This occupation is expected to grow at a somewhat faster rate than the statewide average growth rate for all occupations through 2024.

Reasonable employment opportunities exist largely due to the significant number of job openings projected for this occupation.

Area Employment Projections for Emergency Medical Technicians and Paramedics:

Area	2014 Employment	2024 Employment	Change	% Change	Annual Growth Openings	Annual Replacement Openings	Total Annual Openings
Oregon	2,064	2,448	384	18.6%	38	34	72
Central Oregon	55	59	4	7.3%	0	1	1
Clackamas	259	315	56	21.6%	6	4	10
Columbia Basin	89	97	8	9.0%	1	2	3
Douglas	151	155	4	2.6%	0	2	2
East Cascades	86	90	4	4.7%	0	1	1
Eastern Oregon	123	130	7	5.7%	1	2	3
Mid-Valley	330	374	44	13.3%	4	5	9
Northwest Oregon	153	188	35	22.9%	4	2	6
Portland Tri-County	885	1,052	167	18.9%	17	14	31
Portland-Metro	599	710	111	18.5%	11	10	21
Southeast Oregon	43	43	0	0.0%	0	1	1
Southwestern Oregon	273	295	22	8.1%	2	4	6

Replacement openings occur when workers permanently leave an occupation for reasons such as retirement.

Wage Range 2016 for Emergency Medical Technicians and Paramedics:

Area	10th Percentile	25th Percentile	50th Percentile (median)	75th Percentile	90th Percentile	Average Hourly	Average Annual
Oregon	\$12.32	\$14.42	\$18.03	\$22.90	\$27.93	\$19.00	\$39,528
Central Oregon	\$15.56	\$16.35	\$17.68	\$19.01	\$22.17	\$17.98	\$37,394
Clackamas	\$13.70	\$15.90	\$18.89	\$24.09	\$28.58	\$20.64	\$42,950
Douglas	\$11.22	\$12.64	\$13.98	\$15.32	\$19.84	\$14.99	\$31,181
East Cascades	\$15.30	\$16.13	\$17.50	\$18.87	\$21.91	\$17.69	\$36,799
Eastern Oregon	\$10.24	\$11.36	\$15.31	\$20.16	\$23.96	\$16.22	\$33,749
Mid-Valley	\$11.30	\$13.84	\$16.90	\$19.74	\$22.46	\$16.78	\$34,908
Portland Tri-County	\$13.03	\$15.37	\$20.57	\$25.61	\$29.55	\$20.92	\$43,510
Portland-Metro	\$12.80	\$15.15	\$21.14	\$26.16	\$29.80	\$21.01	\$43,709
South Coast	\$13.75	\$15.96	\$18.76	\$23.36	\$28.84	\$20.05	\$41,707
Southwestern Oregon	\$12.15	\$13.37	\$15.31	\$19.80	\$25.68	\$17.26	\$35,892

U.S. Department of Labor Bureau of Labor Statistics

Quick Facts: EMTs and Paramedics

2016 Median Pay

\$32,670 per year

\$15.71 per hour

Typical Entry-Level Education

Postsecondary nondegree award

Work Experience in a Related Occupation

None

On-the-job Training

None

Number of Jobs, 2014

241,200

Job Outlook, 2014-24

24% (Much faster than average)

Employment Change, 2014-24

58,500

Employment of emergency medical technicians (EMTs) and paramedics is projected to grow 24 percent from 2014 to 2024, much faster than the average for all occupations. Emergencies, such as car crashes, natural disasters, and acts of violence, will continue to create demand for EMTs and paramedics.

I have reached out to several local EMS and Fire agencies that hire EMTs. Doug Kelly (Redmond Fire and Rescue EMS Division Chief), Drew Norris (Bend Fire Administrative Captain and BLS Program Manager), Patrick Hannon (Owner of Cascade Medical Transports) and Adam Mack (Owner of Adventure Medics) all agree that a prospective employee, for an EMT position, with our proposed EMT certificate, would definitely be more desirable than a prospective employee without the EMT certificate. This same opinion is held by all of the members of the Oregon EMS Consortium, which sets the standards for the statewide EMS curriculum. Several consortium members also stated, during our annual meeting in September, that their institutions already provide an EMT 1-year certificate to their students. The consortium members also agreed that all of the required classes contained in the proposed certificate are part of the statewide EMS curriculum. Therefore, attainment of the certificate would assist any student that wished to transfer to another Oregon Community College and enroll in the Paramedic Program.

1.4 – Timeline: While any acceleration of the time line for implementation of the certificate program will result in concrete benefits to students, the standard process through the Curriculum Committee will be acceptable.

1.5 – Organizational Structure and Implementation Team: The certificate will be implemented through existing structure of Natural and Industrial Resources and the Paramedicine Program. No new faculty or staff will be needed.

- Implementation Team:
 - Paramedicine Program Director
 - Matt Lachance
 - Faculty:
 - Brian Bubak (EMT 151, EMT 152, EMT 170);
 - Kathy McCabe (EMT 195);
 - Jake Campbell (SFS 230);
 - Math faculty (MTH 65);
 - Writing faculty (WR 121);
 - Biology faculty (BI 231, BI 232, BI 233);
 - Forestry or business faculty (FOR 211, BA 285);
 - HHP faculty (HHP 242, HHP 266, HHP 295);
 - Various faculty full and part-time (EMS elective);
 - Allied health faculty (AH 111);
 - Communication faculty (SP 111).
 - Administration & Staff:
 - Michael Fisher, Instructional Dean.
 - Ron Boldenow, NIR Department Chair;
 - Michelle Ruebush, Administrative Assistant.

1.6 – Specialized Accreditation: No new specialized accreditation will be required.

1.7 – Diversity: Completing the Paramedicine Program is a time-consuming and expensive proposition. It is hoped that the EMS Certificate will provide a professional entry-point for students who cannot afford the time or cost of receiving paramedic licensure. These are often students from

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under-represented populations in our communities and the certificate will encourage a greater range of diversity in the EMS professionals COCC produces.

1.8 – Exceptional Needs: No additional staff, faculty, facilities or equipment will be needed for the certificate.