

# Paramedic Emergency Medicine

## Degree Type

Associate of Science

NHTI's Paramedic Emergency Medicine degree program is the only one of its kind in N.H. and has been educating paramedic students since 1977. The program has small classes taught by degreed-instructors, current equipment, and a full-sized ambulance simulator. It combines paramedic courses, general education requirements, specialty certifications, and diverse hospital and pre-hospital experiences. You'll have opportunities to work with some of New England's finest hospital and prehospital affiliates. This degree program offers:

- Rigorous curriculum that exceeds the national standards
- Paired lectures and labs to allow for hands-on practice of the weekly topics
- Comprehensive courses in anatomy and physiology and pathophysiology
- In-depth cardiology education, which includes BLS, ACLS, and PALS certifications
- Progressive clinical track for hospital and field experience
- Updated Gaumard and Laerdal simulation mannequins (adult and pediatric)
- Physio-Control LIFEPAK 15 and iSimulateALSi monitors and Glide Scope Go video laryngoscopes

Upon successful completion of all freshmen courses and their hospital clinic, students may test for the AEMT; the NHTI program pass rate is 100%.

**Do you have questions?** Contact Keith Wilding, department chair, at [kwilding@ccsnh.edu](mailto:kwilding@ccsnh.edu) or 603-271-6484 x4213.

## Career Information

Those considering paramedic education should take the associate degree. For many, it provides competitive entry into the job market, a stronger advantage for career advancement, and the potential for academic advancement with the ability to transfer course credits to a four-year college. Our graduates have a 100% pass rate for NREMT written and practical exams as well as 100% job placement after graduation.

Clinical rotations include high-volume, fire-based, hospital-based, and private ambulance services. Students who complete this program can enter into the following professions (not an inclusive list):

- Ambulance-based paramedicine (private, public, and/or volunteer services)
- Hospital-based paramedicine (typically in the emergency department setting) and urgent care facilities
- Mobile integrated healthcare/community paramedicine
- Cruise ships, oil rigs, entertainment venues (sports, movie/TV sets, concerts)

## Admission Requirements

Apply for this program today on our [Admissions page](#) with step-by-step instructions and enrollment pathways build just for you!

The priority application deadline for this program is **March 31, 2024**, for **Fall 2024** admission; candidates will continue to be considered on a space-availability basis through July 31, 2024.

Applicants are required to have:

- A valid driver's license and be at least 18 years old
- High school-level (or higher) courses in lab-based Biology and Chemistry completed with a C or higher or college-level Anatomy and Physiology I and II with labs with a C or higher
- High school-level (or higher) Algebra I, completed with a C or higher
- Current National Registry or State EMT/AEMT certification
- A completed course in **BLS CPR** from the American Red Cross, American Heart Association, or the National Safety Council. Online-only programs are not approved. For more information on CPR requirements, see [Health Services](#).
- Letter of recommendation from EMS supervisor

- Documentation of experience as an ambulance-based EMT/AEMT to include at least 100 patient contacts and 25 team-leads; download the [Field Experience Verification form](#).
- Interview with department chair of Paramedic Emergency Medicine

Students who wish to enter this degree program and are enrolled in another NHTI program must complete and submit the [Change of Program form](#) and submit it to the Admissions office at [NHTIadmissions@ccsnh.edu](mailto:NHTIadmissions@ccsnh.edu).

## Curriculum

### First Year

#### Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
BIOL195C	Anatomy and Physiology I	3	2	4
ENGL101C	English Composition	4	0	4
PEM117C	Physical Assessment	2	0	2
PEM142C	Cardiology I	2	0	2
PEM150C	Advanced Trauma	2	0	2
PEM161C	Integration Lab I	0	4	2
<b>Subtotal Credits</b>		<b>13</b>	<b>6</b>	<b>16</b>

#### Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
BIOL196C	Anatomy and Physiology II	3	2	4
	Mathematics elective (MATH 120C or higher level)	4	0	4
PEM111C	Paramedic Procedures	1	3	2
PEM126C	Pharmacology	3	0	3
PEM135C	Medical Emergencies	2	0	2
PEM162C	Integration Lab II	0	4	2
PEM244C	Advanced Cardiology	2	0	2
<b>Subtotal Credits</b>		<b>15</b>	<b>9</b>	<b>19</b>

#### Summer Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
PEM190C	Introduction to the Clinical Environment	1	0	1
PEM194C	Hospital Clinical	0	18	5
PEM290C	Field Clinic Primer	0	6	2
<b>Subtotal Credits</b>		<b>1</b>	<b>24</b>	<b>8</b>

## Second Year

### Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
	BIOL 202C or BIOL 222C			3-4
PEM163C	Integration Lab III	0	4	2
PEM201C	Special Populations	2	0	2
PEM292C	12 Lead EKG Interpretation/Difficult Airway Seminar	2	0	2
PEM296C	Field Clinical I	0	9	3
PSYC105C	Introduction to Psychology	3	0	3
	<b>Subtotal Credits</b>	<b>7</b>	<b>13</b>	<b>15-16</b>

### Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
	ENGL120C/COMM120C or ENGL120MC/COMM120MC	3	0	3
PEM164C	Integration Lab IV	0	4	2
PEM210C	Field Operations	2	0	2
PEM278C	Advanced Paramedic Practice	2	0	2
PEM297C	Field Clinical II	0	7	3
PEM298C	Field Clinical III	0	2	1
	Humanities/Fine Arts/Language elective	3	0	3-4
	<b>Subtotal Credits</b>	<b>10-11</b>	<b>13</b>	<b>16-17</b>
	<b>Total Credits</b>			<b>72-73</b>

## Additional Information

## Accreditation

The NHTI Paramedic Emergency Medical Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). Most recent accreditation was July 21, 2016.

### Commission on Accreditation of Allied Health Education Programs (CAAHEP)

1361 Park Street  
Clearwater, FL 33756  
727-210-2350  
[www.caahep.org](http://www.caahep.org)

### Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP):

8301 Lakeview Parkway, Suite 111-312  
Rowlett, TX 75088  
Phone: 214-703-8445  
Fax: 214-703-8992  
[www.coaemsp.org](http://www.coaemsp.org)

	Cohort Graduation Year										3 Year Total	5 Year Total
	2023		2022		2021		2020		2019			
Enrollment (after 10% of total clock hours)	13	1	14	1	9	5	10	1	12	2	43	68
Graduates	8	0	10	0	8	2	4	1	10	1	28	44
Attrition (cohort)	38%	100%	29%	100%	11%	60%	60%	0%	17%	50%	33%	33%
Attrition (year)	43%		33%		29%		55%		21%		35%	36%
Retention (year)	57%		67%		71%		45%		79%		65%	64%
National Registry - Cognitive (% attempting)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
National Registry - Cognitive (% pass rate)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
National Registry - Psychomotor (% attempting)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
National Registry - Psychomotor (% pass rate)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Job Placement	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

## Clinical Affiliations

**Hospital Clinic Sites:** During the freshmen-year clinic, students spend at least 224 hours working in multiple settings within the hospital. Each clinical site is provided with program-faculty supervision and advocacy.

- Concord Hospital, Concord, N.H.
- Dartmouth-Hitchcock Medical Center, Lebanon, N.H.
- Southern New Hampshire Medical Center, Nashua, N.H.

**ALS Field Clinic Sites:** During senior-year field clinics, students spend 320 hours working with an Advanced Life Support ambulance service. Each student is assigned a paramedic preceptor for the duration of the experience.

- American Medical Response (AMR), Manchester/Nashua, NH
- Cataldo Ambulance Service, Somerville, MA
- Coastal EMS, Brookline/Dedham/Newton, MA
- Concord Fire Department, Concord, NH
- Derry Fire Department, Derry, NH
- Dover Fire Department, Dover, NH
- Exeter Fire Department, Exeter, NH
- Frisbie Memorial Hospital EMS, Rochester, NH
- Greater Lowell EMS, Lowell, MA
- Lawrence General Hospital ALS, Lawrence, MA
- Salem Fire Department, Salem, NH
- Tilton-Northfield Fire & EMS, Tilton, NH

## FAQs

### On which days do classes meet?

- Freshman Fall: Paramedic classes are all day Tuesday (8 a.m.-5 p.m.) and Wednesday (9-11 a.m.). If you need A&P I, it is typically taken Wednesday 12-5 p.m.

- Freshman Spring: Paramedic classes are all day Tuesday (8 a.m.-4 p.m.) and Thursday (8 a.m.-6 p.m.). If you need A&P II, it is typically taken Wednesday 12-5 p.m.
- Hospital Clinic runs mid-May through the end of June and is Monday through Friday. Shift length varies depending on rotation with most being 7 a.m.-3 p.m. but others being as long as 7 a.m.-7 p.m.
- Senior Year: Paramedic classes are Wednesday 9 a.m.-6 p.m. and approximately one day of field clinic (ambulance ride time) per week.
- There are other non-major classes that are required. Many of these can be taken in an online format.

### **Can I take any classes before starting the program?**

Yes. Any of the non-major classes may be taken prior to being accepted into the program. It is highly recommended (though not required) that incoming students take Anatomy and Physiology prior to beginning the program.

### **How long is the program and when does it start?**

The program is 5 semesters (approximately 18 months) in duration and starts with the fall semester. Classes and clinics occur over:

- Two fall semesters (late-August through mid-December)
- Two spring semesters (January through mid-May)
- One summer semester (mid-May through June)

### **Are online classes available?**

No program courses are available online. However, non-major courses (required by the associate degree) can be taken online.

### **Can I be in the program as a part-time student?**

No, unfortunately a part-time option is not available.

### **Health and Additional Requirements**

- Annual TB testing; Hepatitis B vaccine; personal health insurance; completed health physical; drug screening; and NHTI liability insurance
- Never been convicted of a felony (may interfere with National Registry eligibility)
- Sufficient eyesight to observe patients, manipulate equipment, and interpret data
- Visual acuity sufficient to work with data, figures, and computer terminals and make equipment inspections
- Sufficient hearing to assess patient needs and to understand instructions
- Sufficient written and oral skills to communicate needs promptly and effectively and to interact with patients, physicians, peers, and medical and other public service emergency personnel
- Ability to work with frequent interruptions and respond appropriately to unexpected situations
- Ability to work with wide variations in workload and stress levels
- Mental health to cope with personal stresses in a way that does not adversely affect performance

Students that do not meet entrance requirements may need an alternate plan for the scheduling of their courses.

Students enrolled at NHTI often take non-major courses, easing the class load when admitted to the Paramedic Emergency Medicine Program. The core classes for this degree program are only offered during the day. Because of the sequential nature of the course work, these core classes are only available to those who have been accepted into the program.

## Program Costs

Course	Course Name	Credits	Class-Hours per Week	Classroom Hours per Semester	Tuition*	Comp Fee	Academic Instruction Fee	Clinical Surcharge	Liability Insurance	Fisdap	Background Check & Drug Screening	Books <sup>1</sup>	Uniform <sup>1</sup>	Total Cost <sup>2</sup>
PEM 117C	Physical Assessment	2	1.7	25	\$430	\$50						\$400		\$880
PEM 142C	Cardiology I	2	1.7	25	\$430	\$50						\$150		\$630
PEM 150C	Advanced Trauma	2	1.7	25	\$430	\$50								\$480
PEM 161C	Integration Lab I	2	1.7	25	\$430	\$50	\$110			\$180				\$770
PEM 111C	Paramedic Procedures	2	1.7	25	\$430	\$50	\$110							\$590
PEM 126C	Pharmacology	3	2.5	37.5	\$645	\$75								\$720
PEM 135C	Medical Emergencies	2	1.7	25	\$430	\$50								\$480
PEM 162C	Integration Lab II	2	1.7	25	\$430	\$50	\$110							\$590
PEM 244C	Advanced Cardiology	2	1.7	25	\$430	\$50						\$50		\$530
PEM 190C	Intro to Hosp Clinic	1	24.0	24	\$215	\$25					\$125		\$200	\$565
PEM 194C	Hospital Clinic	5	34.5	224	\$1,075	\$125	\$550	\$500	\$65					\$2,315
PEM 290C	Intro to Field Clinic	2	15.4	100	\$430	\$50	\$220							\$700
PEM 163C	Integration Lab III	2	1.7	25	\$430	\$50	\$110							\$590
PEM 201C	Special Populations	2	1.7	25	\$430	\$50						\$50		\$530
PEM 292C	12-Lead/Diff Airway	2	1.7	25	\$430	\$50								\$480
PEM 296C	Field Clinic I	3	2.5	37.5	\$645	\$75	\$330	\$500	\$65					\$1,615
PEM 164C	Integration Lab IV	2	1.7	25	\$430	\$50	\$110							\$590
PEM 210C	Field Operations	2	1.7	25	\$430	\$50								\$480
PEM 278C	Adv Paramedic Practice	2	1.7	25	\$430	\$50								\$480
PEM 297C	Field Clinic II	3	2.5	37.5	\$645	\$75	\$220	\$500						\$1,440
PEM 298C	Field Clinic III	1	0.8	12.5	\$215	\$25	\$110							\$350
BIOL 195C	Anatomy & Physiology I	4	3.3	50	\$860	\$100	\$110							\$1,070
ENGL 101C	Intro to English (or higher)	4	3.3	50	\$860	\$100								\$960
BIOL 196C	Anatomy & Physiology II	4	3.3	50	\$860	\$100	\$110							\$1,070
MATH 120C	Quantitative Reasoning (or higher)	4	3.3	50	\$860	\$100								\$960
BIOL 222C	Pathophysiology <sup>3</sup>	3	2.5	37.5	\$645	\$75								\$720
PSYC 105C	Intro Psych (or higher)	3	2.5	37.5	\$645	\$75								\$720
ENGL 120C	Communications	3	2.5	37.5	\$645	\$75								\$720
HM XXXC	Humanities/Language/Fine Arts	3	2.5	37.5	\$645	\$75								\$720
<b>TOTAL COST OF PROGRAM</b> (*based on In-State rate of					\$215	per credit)								<b>\$22,745</b>
<b>COST OF PARAMEDIC COURSES</b> (*based on In-State rate of					\$215	per credit)								<b>\$15,805</b>

<sup>1</sup>These are estimated costs, and may change from year to year. Cost of books in non-major courses is dependent upon which courses are taken and if "open resource" texts are available.

<sup>2</sup>The total cost of the program will depend upon the quantity of non-major credits transferred to NHTI. All paramedic courses must be taken.

<sup>3</sup>Microbiology (4 credits) may be substituted for Pathophysiology.

## Program Learning Outcomes

The program's emphasis is on the development of paramedic knowledge and theory, practical skills application, and the development of professional behaviors required of the entry level paramedic. The development of leadership skills, individual professional growth, and academic excellence are integral parts of the program.

## Technical/Physical Standards

Students in this program must have sufficient strength and motor coordination required to perform the following physical activities: standing and walking for sustained periods of time; driving an ambulance and/or rescue unit under emergency conditions; frequent reaching and manual dexterity in handling equipment often in confined spaces; and frequently transporting, moving, lifting, and transferring patients of various sizes to and from a stretcher and other patient transport devices.