

# AUTOMOTIVE COLLISION REPAIR



## PURPOSE OF PROGRAM

NMCC's automotive collision repair is the only collegiate auto collision repair program in northern New England. It is designed to provide broad fundamental training in the repair of collision damage, frame straightening and the replacement of body panels. Instruction is given in welding, cutting and grinding, the use of plastic and fiberglass in preparation for the application of paint, and SMC panel and plastic parts repair. The second year of the program reinforces the skills learned in the first year; however, more emphasis is placed on major collision appraisal and repair and the auto body refinishing process, a process that includes polyurethane paints and all catalyzed systems. Emphasis is also placed on base coat, clear coat and tri-coat paint and color matching. Instruction is also given in the paint mixing and tinting area with hands-on experience. Seniors in the transportation trades programs have the option to participate in a structured field trip to Detroit, MI in order to experience the history and manufacturing processes of the transportation industry.

## CAREER OPPORTUNITIES

Graduates will find job opportunities with auto body and paint shops, new and used car dealers, auto glass shops and truck body builders. With experience, advanced positions may be available in supervision, insurance adjusting, sales and service, auto product field representation, with collision frame shops and in self-employment.



*The automotive collision repair program has achieved National Institute for Automotive Excellence (ASE) certification after a thorough evaluation by the National Automotive Technicians Education Foundation (NATEF).*

*NMCC is an equal opportunity/affirmative action institution and employer. For more information, please call 768-2791.*

## ADMISSIONS POLICY

Completion of a four-year high school program or a state high school equivalency certificate is required for admission into NMCC's automotive collision repair program. Two years of high school math are required, with algebra I required for associate degree applicants and desired for certificate applicants. Algebra II is desired for all applicants, while geometry and physics are desired for those entering the associate degree level. A rolling admissions policy affords candidates the opportunity to apply and be considered for acceptance throughout the year, but early application (9-10 months prior to the school year) is recommended because of competition and strict enrollment capacities established for each program.

## APPLICATION PROCEDURE

*The following procedures constitute the admissions process:*

1. An application form must be submitted accompanied by a nonrefundable \$20 application fee.
2. An official high school transcript must also be submitted (current seniors' transcripts should include completed ranking periods); GED test scores must be submitted by applicants who are not high school graduates.
3. Official college transcripts must be submitted by applicants who have attended other colleges or postsecondary schools.
4. A medical clearance form must be completed and returned to the college.
5. Placement testing or appropriate SAT scores, individual interviews and campus tours are required, in most cases, prior to being admitted.
6. Admissions decisions are made as quickly as possible once a candidate's file is complete.
7. Accepted applicants are required to make a deposit within thirty days of acceptance. Students requesting on-campus housing are required to submit an additional deposit to reserve space in the residential complex.
8. Applicant must meet RPS ME 1910.134 and complete a medical clearance form authorizing them in the use of a respirator.

# AUTOMOTIVE COLLISION REPAIR

## 2015-2016 Curriculum

### Associate in Applied Science Degree Program

<u>First Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 111	Nonstructural Repairs	3	9	6
ENG 111	English Composition	3	0	3
MAT 119	Applied Mathematics	4	0	4
WEI 113	Thin Metals Welding	2	2	3
		<u>12</u>	<u>11</u>	<u>16</u>

<u>Second Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 121	Structural Analysis/Plastics	3	9	6
◆ AUT 115	Automotive Electricity	2	2	3
SAE 121	Industrial Safety	3	0	3
WEI 133	Electric Welding	2	2	3
	General Education Elective	1	0	1
	Social Science Elective	3	0	3
		<u>14</u>	<u>13</u>	<u>19</u>

<u>Third Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 209	Auto Collision Blueprint & Est	3	0	3
◆ ACR 211	Painting & Refinishing	3	9	6
◆ AUT 125	Automotive Electronics	2	2	3
COM 221	Technical Communications	3	0	3
	Humanities Elective	3	0	3
		<u>14</u>	<u>11</u>	<u>18</u>

<u>Fourth Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 223	Structural Repairs	3	9	6
AUT 216	Motor Vehicle Inspection	2	0	2
◆ AUT 229	Auto Heating & Air Conditioning	2	2	3
PHY 150	Physics	3	2	4
	Elective	3	0	3
		<u>13</u>	<u>13</u>	<u>18</u>

**TOTAL REQUIRED** 71

◆ Major courses; a minimum grade of "C" or 2.0 required.

### Certificate Program

<u>First Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 111	Nonstructural Repairs	3	9	6
MAT 119	Applied Mathematics	4	0	4
SAE 121	Industrial Safety	3	0	3
WEI 113	Thin Metals Welding	2	2	3
		<u>12</u>	<u>11</u>	<u>16</u>

<u>Second Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 121	Structural Analysis/Plastics	3	9	6
◆ AUT 115	Automotive Electricity	2	2	3
ENG 111	English Composition	3	0	3
WEI 133	Electric Welding	2	2	3
		<u>10</u>	<u>13</u>	<u>15</u>

**TOTAL REQUIRED** 31

◆ Major courses; a minimum grade of "C" or 2.0 required.

### Major Collision Repair and Refinishing Certificate Program

<u>First Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 209	Auto Collision Blueprint & Est	3	0	3
◆ ACR 211	Painting & Refinishing	3	9	6
◆ AUT 125	Automotive Electronics	3	0	3
ENG 111	English Composition	3	0	3
		<u>12</u>	<u>9</u>	<u>15</u>

<u>Second Semester</u>		<u>C</u>	<u>L</u>	<u>CR</u>
◆ ACR 223	Structural Repairs	3	9	6
AUT 216	Motor Vehicle Inspection	2	0	2
◆ AUT 229	Auto Heating & Air Conditioning	2	2	3
MAT 119	Applied Mathematics	4	0	4
		<u>11</u>	<u>11</u>	<u>15</u>

**TOTAL REQUIRED** 30

◆ Major courses; a minimum grade of "C" or 2.0 required.

Must have completed the Auto Collision Repair Certificate Program or permission of the instructor to enroll in this certificate program.