



# Southwestern Michigan College Applied Science in Associate in Neurodiagnostic Technology (EEG)

## 2021

### EEG Technology

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Neurodiagnostic technologists perform electroencephalograms (EEGs), which map electrical activity in the brain and are used by physicians to diagnose and treat neurological disorders.

EEG technicians may explain the EEG test procedure to patients, prepare patients for the procedure, conduct the EEG test, monitor the patient's condition during the procedure, prepare reports, and communicate results to physicians. They may be employed in hospitals or other health care settings. EEG Technologists median annual salary \$42,630

### Licensing

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Associate in Applied Science in Neurodiagnostic Technology (EEG) from SMC and will be eligible to take the certification exam administered by the American Board of Registration of Electroencephalographic and Evoked Potential Technologists (ABRET).

### Prerequisites

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Course ID	Course
BIOL 214	Basic Human Anatomy
CHEM 100	Fundamentals of Chemistry
ENGL 103 or 103W	Freshman English II
MATH 127	College Algebra
PSYC 101	General Psychology
SOCI 201	Principles of Sociology
PHIL 210	Introduction to Ethics

- Students are required to take all pre-requisite courses. No course waivers will be accepted.
- Dual Enrolled students are required to follow guidelines and criteria for the year they become degree seeking students.
- AP course or courses where the test(s) has been taken and passed will be accepted. CLEP is not accepted. Please refer to page 6 for scores and grades.
- A minimum grade of a C is required in all general education courses.
- Students must have a minimum of a 2.5 in both overall GPA and a pre-requisite GPA in order to be eligible to apply.
- A student may only attempt pre-requisite courses two times. Only the most recent attempt on pre-requisites will be considered for admission requirements. If attempts are 5 years or older, the student can retake the courses and be considered for admission. An attempt includes "W" withdrawals.
- Math and science pre-requisites expire after 5 years and must be retaken prior to admission consideration.
- English and Psychology courses may be retaken after five years, but not required.
- Students will not be eligible for admission to the EEG program if they attempt any pre-requisite course more than twice. This includes attempts at other institutions.

- If a student has attempted a higher-level pre-requisite class(es) (i.e. MATH 130, CHEM 101), that will be the class(es) that will be used to calculate the pre-requisite GPA. The pre-requisite attempt rule also applies to these courses.

## Program Courses

Fall	Spring 1 (1st 8 weeks)	Spring 2 (2nd 8 weeks)	Summer (1st 6 weeks)	Summer (2nd 6 weeks)
Neuroanatomy and Physiology	Principles of EEG	EEG Procedures and Pathology 1	EEG Procedures and Pathology 2	EEG Procedures and Pathology 4
Introduction to Neurodiagnostic Procedures	Principles of Electricity and Electrical Safety	EEG Instrumentation 2	EEG Procedures and Pathology 3	EEG Clinical Practice 2
EEG Applications	EEG Instrumentation 1	EEG Quality Control	EEG Clinical Practice 2	
EEG Pre-Clinical Preparation	EEG Clinical Practice 1	EEG Clinical Practice 1		

## Non-Sequential Class

It is recommended that students take HEED 101 (Medical Terminology) and BIOL 215 (Principles of Human Physiology) prior to starting the EEG program.

## EEG Program Admission Deadlines

Timeline	Planned Admission for Summer
Deadline for Application to the Nursing and Health Services Office	May 1st Note: Students in progress Spring and Summer Semester classes will be considered for admission.
Acceptance	You will be notified of your acceptance by the Program Director of the MiRIS (Michigan Radiologic and Imaging Science Consortium).
Required Orientation Day	August (exact date and time TBA)

This is a competitive admission process. Points are awarded based on overall GPA and pre-requisite GPA.

To see the full list of participating colleges, visit <https://www.mcca.org/eeg-tech>.

All students must complete a SMC Admission Application and have met all the admission requirements of both SMC and the EEG program prior to applying to the EEG program.

## Students taking pre-requisite classes at other institutions

- If you have not taken courses (at least 10 credit hours) at SMC (all/most pre-requisites have been taken at another college), Admission Team will use the student's previous institution's overall GPA for admissions purpose provided it is a 2.5 or higher. If not, the student will need to take a minimum of 10 credit hours at SMC to establish an overall GPA. If you have attended multiple institutions, the Admission Team reserves the right to determine which previous institution's overall GPA will be used. The team consist of the Dean of Nursing and Health Services, and Academic Advisors.
- Once a student has taken 10 credit hours at SMC they **must** use the overall GPA at SMC.
- If a student is finishing up a pre-requisite class at another institution near an application deadline and the official transcript will not arrive until after the application deadline, the student can either;
  - send an unofficial transcript with the grade earned in the class/es

- have the professor/s of the class/es send a letter from their institution's email address directly to the Nursing and Health Services office indicating the final grade received.
- In either above instance, the student has two weeks from the application date to send the official transcript. If the transcript is not received in that two-week period, the student will be ineligible for the application cycle.

## High School and Dual Enrolled Students

- High school and dual enrolled students are eligible to apply to the program as long as all of the pre-requisite and GPA requirements are met, and are 18 years of age by the start of the admission semester.
- If you are a Dual Enrolled or Early Middle College student, you **must** Have your transcripts from the college you were dual enrolled in sent to Southwestern Michigan College. Having the college courses listed on your high school transcripts is not accepted.

## Calculating your Total GPA Points for the MRI Program

Course ID	Credits	Multiply	GPA of Course	Equals
BIOL 214	4	X		=
CHEM 100	4	X		=
ENGL 103	3	X		=
MATH 127	4	X		=
PSYC 101	3	X		=
SOCI 201	3			
PHIL 210	4			
Total Pre-Req Credits	25		Add all Points	

Take the number equivalent to the letter grade you earned in the class (see grading scale below), multiply that number by the number of credit hours for the class. Add the total class points you earned and then divide that number by the total number of pre-requisite credit hours (**25**). This number will be your pre-requisite GPA. Your overall GPA will be listed in your dashboard account.

### GPA-Letter Equivalencies

Letter	GPA
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0.00
I *Incomplete	0.00
W *Withdrawal	0.00

Overall GPA + Pre-Req. GPA = Your Total Points out of 8 possible points.

## Course Equivalencies

### CHEM 100:

Alternative chemistry courses for the EEG program:

CHEM 101, 102 equivalencies

CHEM 201 and 202 are not acceptable for pre-requisite courses

### MATH 127:

Alternative math courses for the EEG program:

Math 130, 141, 142, 201, 203, 205 equivalencies

MATH 098, 101, 102, 128, 129, 150, 153, 154 are not acceptable pre-requisite courses

### Advanced Placement Conversion

Score Range	Grade
5	A
4	A
3	B
2	C

### MATH 130

Grade	Equiv in MATH 127
C	B
B	A
A	A

### MATH 141+

Grade	Equiv in MATH 127
C	B
B	A
A	A

## Disclaimers

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- Students with approved status and/or benefits through U.S. Citizenship and Immigration Service's (USCIS) are responsible for being aware of their status and/or benefits and any changes that may affect it. Southwestern Michigan College is not liable for any problems that may occur when applying for examination, licensing, and employment after you complete the program.
- Please note the information in this packet is subject to change without notice, please meet with your advisor if you have any questions. Students are responsible to adhere to any changes made that may affect them.