

## Agreement of Cooperative Services for a Radiography Program Between Mid Michigan College and Northwestern Michigan College

This agreement, made this 17th day of April 2024, between Mid Michigan College, Harrison, Michigan (hereafter referred to as MID), and Northwestern Michigan College of Traverse City, Michigan (hereafter referred to as NMC).

Whereas, both colleges desire to make available a Radiography Program to their students and;  
Whereas, both colleges desire to provide educational service to their students in the most economical way, and;

Whereas, both colleges recognize the community and professional need for radiography personnel, and; Whereas, MID does provide a Radiography Program;

Now, therefore, for and in consideration of the premises and the mutual covenants and agreements herein contained, the parties hereto agree as follows:

1. Northwestern Michigan College:
  - a. Provide academic courses for these students at NMC as agreed in Addendum A.
  - b. Provide Academic advising for students who have identified interest in Medical Imaging.
  - c. Refer qualified candidates who have met the prerequisite requirements or the NMC equivalent to MID for program entry (See Addendum A).
2. Mid Michigan College:
  - a. Maintain a Radiography Program accredited by the Joint Review Committee on Education in Radiologic Technology.
  - b. Provide overall supervision by the program director.
  - c. Accept the college application of the NMC students involved in this agreement, without application fees.
  - d. Accept all satisfactorily earned credits taken both at NMC and MID. Students must earn a C or better in all classes to be accepted with the exception of Anatomy and Physiology courses, in which the required standard is 2.5 or higher.
  - e. Provide specific Radiography Curriculum (including clinical practicum courses and Concepts in Microbiology) for NMC students for a total of 44.5 credit hours as specified in Addendum B.
  - f. Reserve sufficient number of sections in the Radiography courses and labs for NMC students to provide a schedule conducive for commuting purposes. Articulated students will be placed in the first lab of the day, when possible, dependent on number of articulated students.
  - g. Clinical assignments for NMC students will be allotted at Munson Medical Center, when possible. The number of clinical students assigned is influenced by the medical facility and the Joint Review Committee on Education in Radiologic Technology guidelines.
  - h. NMC students will take Radiography and other required curriculum courses at MID at MID's out-of-district rates.
  - i. Grant the Associate in Applied Science Degree to all NMC students who complete the requirements for the degree.
3. Northwestern Michigan and Mid Michigan Colleges:

The Financial Aid Departments will mutually explore and formulate methods to provide those qualified students full financial aid in the event a split course schedule becomes necessary.

4. Student Eligibility

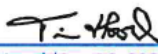
Students need to take at least 15 credit hours at NMC in order to qualify for this articulation agreement.

5. Termination

- a. This agreement may be terminated at any time by either party by notice given to the other party in writing at least one year prior to the effective date of such termination; provided, however, that NMC students enrolled at MID at the same time of the notice be allowed to finish the entire program at MID even if the students have more than one year (but not to exceed two years) left in the program.
- b. This agreement will be reviewed and revised as necessary but shall remain in effect until termination as specified by the Termination clause of this agreement.
- c. This agreement is binding on all successors and assigns of MID and NMC.

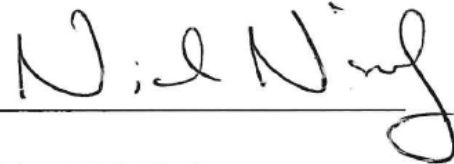
In witness whereof, MID and MCC have executed this agreement as of 17th day of April, 2024.

MID MICHIGAN COLLEGE

By:   
By: Tim Hood (Apr 16, 2024 15:10 EDT)

President Timothy Hood

NORTHWESTERN MICHIGAN COLLEGE

By:   
By: \_\_\_\_\_

President Nick Nissley

# Northwestern Michigan College and Mid Michigan College Shared Radiography Curriculum

## Addendum A

Prerequisite classes offered at Northwestern Michigan College (NMC) to be completed prior to admission into the Radiography Program are as follows:

| Course #          | Credits | Course Name                     |
|-------------------|---------|---------------------------------|
| HAH 101           | 3       | Medical Terminology             |
| BIO 227           | 4       | Human Anatomy and Physiology I  |
| BIO 228           | 4       | Human Anatomy and Physiology II |
| ENG 111           | 4       | English Composition             |
| MTH 111 or 111/11 | 4       | Intermediate Algebra*           |

\*Competency exam may be taken at Mid.

A grade of B- or better is required in the Anatomy and Physiology courses. A grade of C or better is required in the other prerequisites, with a G.P.A. of 2.7 or higher in all prerequisites. Pre-requisites may be repeated once in order to achieve required grade. Science courses must have been completed within five years of the date the student formally begins the program.

The following General Education courses included in the shared Radiography curriculum are offered at NMC. It is recommended that they be completed prior to beginning the program.

| Course #           | Credits | Course Name                                 |
|--------------------|---------|---|
| COM 101            | 3       | Introduction to Communication               |
| COM 111 or PSY 101 | 3       | Public Speaking, Introduction to Psychology |

Additionally, SSC 200 (Social Sciences and Contemporary America) are to be taken at Mid or equivalent credit earned.

Students who have earned an Associates Degree from an accredited college may be considered to have met the Mid General Education Level I requirements for English Composition, Introduction to Computers, Fundamentals of Communications, and Algebra. Students who have earned a Bachelor's Degree from an accredited college also have met General Education Level requirements as well as the Social Sciences requirement.



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## Associate In Applied Science Radiography

You as a student are responsible for meeting requirements for your curriculum. Your advisor is available for consultation. At least 15 of these credit hours must be taken at Mid. A minimum of 73.5 credits is required to complete this program.

| Course #   | Credit Hours | Contact/Billing Hours | Course Title                                 | Prerequisites  |
|--|--------------|-----------------------|--|--|
| <b>Prerequisites to the Program: 23-25 Credit Hours</b>  |              |                       |  |  |
| ALH 100  | 2            | 2                     | Medical Terminology                          | -  |
| ENG 111  | 3            | 3                     | Freshman English Composition                 | Placement into ENG 111 or ENG 110 with a minimum grade of "C"                      |
| MAT 104  | 3            | 3                     | Basic Algebra                                | Minimum Grade of "C" in Mat 101 or a minimum grade of "C" in Mat 102 or equivalent |
| BIO 138  | 6            | 8                     | Human Anatomy and Physiology                 | BIO 101 (minimum grade of "C")   |
| Or BIO 141   | 4            | 5                     | Anatomy and Physiology I AND                 | BIO 101 (minimum grade of "C") or equivalent                                       |
| AND BIO 142  | 4            | 5                     | Anatomy and Physiology II                    | BIO 141  |
| Completion of BIO 141 and BIO 142 is recommended to students intending to transfer to a four-year institution. |              |                       |  |  |
| <b>Other Required Courses - 12 Credit Hours</b>  |              |                       |  |  |
| SPE 101  | 3            | 3                     | Fundamentals of Communication                | -  |
| OR SPE 257   | 3            | 3                     | OR Public Speaking                           | -  |
| PSY 101  | 3            | 3                     | Introduction to General Psychology           | -  |
| SSC 200  | 3            | 3                     | The Social Sciences and Contemporary America | ENG 111 and either SPE 101 or 257 (minimum grade of "C" in each)                   |
| <b>Program Courses 44.5 Credits</b>  |              |                       |  |  |
| <b>First Semester</b>  |              |                       |  |  |
| RAD 100  | 3            | 4                     | Introduction to Radiologic Technology        | Admission to the program; Corequisite: RAD 110, RAD 113                            |
| RAD 110  | 2            | 2                     | Radiation Physics                            | Admission to the program; Corequisite: RAD 100, RAD 113                            |
| RAD 113  | 1            | 1                     | Radiation Biology                            | Admission to the program; Corequisite: RAD 100, RAD 110                            |
| <b>Second Semester</b>   |              |                       |  |  |
| RAD 115  | 3            | 4                     | Principles of Radiographic Exposure          | RAD 100, RAD 110, RAD 113; Corequisite: RAD 130, RAD 213                           |
| RAD 130  | 4            | 5.5                   | Radiographic Procedures I                    | RAD 100, RAD 110, RAD 113; Corequisite: RAD 115, RAD 213                           |
| RAD 213  | 1            | 1                     | Radiation Protection                         | RAD 100, RAD 110, RAD 113; Corequisite: RAD 115, RAD 130                           |
| <b>Third Semester</b>  |              |                       |  |  |
| RAD 175  | 3            | 4                     | Radiographic Procedures II (hybrid)          | RAD 115, RAD 130, RAD 213; Corequisite: RAD 180                                    |
| RAD 180  | 6            | 15                    | Clinical Experience I                        | RAD 115, RAD 130, RAD 213; Corequisite: RAD 175                                    |
| <b>Fourth Semester</b>   |              |                       |  |  |
| RAD 201  | 2            | 2                     | Clinical Issues in Radiography (hybrid)      | RAD 175, RAD 180; Corequisite: RAD 205, RAD 211, RAD 217                           |
| RAD 205  | 7            | 15                    | Clinical Experience II                       | RAD 175, RAD 180. Corequisite: RAD 201, RAD 211, RAD 217                           |
| RAD 211  | 1            | 1                     | Sectional Anatomy (online)                   | RAD 175, RAD 180; Corequisite: RAD 201, RAD 205, RAD 217                           |
| RAD 217  | 2            | 2                     | Advancements in Imaging (hybrid)             | RAD 175, RAD 180; Corequisite: RAD 201, RAD 205, RAD 211                           |
| <b>Fifth Semester</b>  |              |                       |  |  |
| RAD 221  | 2            | 2                     | Clinical Issues in Radiography II (online)   | RAD 201, RAD 205, RAD 211, RAD 217; Corequisite: RAD 230, RAD 250                  |
| RAD 250  | 7.5          | 15                    | Clinical Experience III                      | RAD 201, RAD 205, RAD 211, RAD 217; Corequisites: RAD 221, RAD 230                 |

# Associate In Applied Science

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2021-2022 Version

## Radiography

### Notes:

\*All courses in a semester must be passed with a minimum grade of "C" to progress to the next semester.

\*BIO 138 (or BIO 141 & BIO 142 each) must be passed with a minimum grade of "B-".

\*The Anatomy and Physiology courses must have been completed within five (5) years of the date the student.

\*Prerequisites for this program may be repeated only once.

### Suggested Sequence (after completion of prerequisites)

#### First Semester

**RAD 100** Introduction to Radiologic Technology

**RAD 110** Radiation Physics

**RAD 113** Radiation Biology

#### Second Semester

**RAD 115** Principles of Radiographic Exposure

**RAD 130** Radiographic Procedures I

**RAD 213** Radiation Protection

#### Third Semester

**RAD 175** Radiographic Procedures II

**RAD 180** Clinical Experience I

#### Fourth Semester

**RAD 201** Clinical Issues in Radiography I

**RAD 205** Clinical Experience II

**RAD 211** Sectional Anatomy

**RAD 217** Advancements in Imaging

#### Fifth Semester

**RAD 221** Clinical Issues in Radiography II

**RAD 250** Clinical Experience III