



MEDICAL IMAGING MANAGEMENT ADVANCED PRACTICE TRACK, EMPHASIS















Course Requirements

 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.



The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at <https://www.marshall.edu/gened/>.

(limited to professional radiographers only)

| Code | Title | Credit Hours |
|--|--------------------------------|--------------|
| Core Curriculum | | |
| <i>Core 1: Critical Thinking</i> | | |
| FYS 100 | First Yr Sem Critical Thinking | 3 |
| MTH 121  | Concepts and Applications (CT) | 3 |
| CLS 105  | Medical-Lab Terminology (CT) | 3 |
| <i>Core 2</i> | | |
| ENG 101  | Beginning Composition | 3 |
| ENG 201  | Advanced Composition | 3 |
| CMM 103  | Fund Speech-Communication | 3 |
| MTH 121  | Concepts and Applications (CT) | 3 |
| BSC 228  | Human Physiology | 3 |
| BSC 228L  | Human Physiology Lab | 1 |
| Core II Humanities | | 3 |
| Core II Social Science | | 3 |
| Core II Fine Arts | | 3 |
| <i>Additional University Requirements</i> | | |
| Writing Intensive | | 3 |
| MI 403 | Adv Practice Medical Img | |
| Writing Intensive | | 3 |
| MI 411  | Transcultural Healthcare | |
| Multicultural or International | | 3 |
| MI 411  | Transcultural Healthcare | |
| Capstone (see advanced modality track) | | 3 |
| Major-Specific | | |
| BSC 227 | Human Anatomy | 3 |
| BSC 227L | Human Anatomy Lab | 1 |
| BSC 228  | Human Physiology | 3 |
| BSC 228L  | Human Physiology Lab | 1 |
| PHY 101  | Conceptual Physics | 3 |
| PHY 101L  | Conceptual Physics Lab | 1 |
| CLS 105  | Medical-Lab Terminology (CT) | 3 |





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|------------|------------------------------|---|
| MI 201 | Intro to Radiography | 3 |
| MI 202 | Patient Care Img Science | 3 |
| MI 204 | Radiographic Anatomy | 3 |
| MI 205 | Imaging Procedures I | 4 |
| MI 206 | Clinical Practice I | 4 |
| MI 207 | Imaging Procedures II | 4 |
| MI 208 | Pharmacology for Imaging Sci | 2 |
| MI 209 | Intro to Imaging Equip | 3 |
| MI 210 | Clinical Practice II | 4 |
| MI 211 | Seminar Imaging Science | 1 |
| MI 212 | Seminar Imaging Sciences II | 1 |
| MI 302 | Princ of Radiation Physics | 3 |
| Statistics | | 3 |
| MI 303 | Image Acquisition | 3 |
| MI 304 | Radiographic Pathology | 3 |
| MI 305 | Clinical Practice IV | 4 |
| MI 306 | Seminar Imaging Science | 1 |
| MI 307 | Radiobiology | 3 |
| MI 308 | Rad Image Analysis | 2 |
| MI 309 | Image Acquisition II | 3 |
| MI 310 | Clinical Practice V | 4 |
| MI 311 | Seminar Imaging Sciences III | 1 |
| MI 321 | Imaging Procedures III | 4 |

In Year 4, students choose an area of emphasis. Below are Year 4 course requirements for the Medical Imaging Management Advanced Practice Track area of emphasis:

| Code | Title | Credit Hours |
|--|-------------------------------|--------------|
| MI 401 | Seminar in Imaging Sci | 1 |
| MI 403 | Adv Practice Medical Img | 3 |
| MI 409 | Adv Clinical Practice | 4 |
| MI 410  | Research Medical Imaging | 3 |
| MI 411  | Transcultural Healthcare | 3 |
| MI 412 | Radiography Management I | 3 |
| MI 413 | Radiography Management II | 3 |
| MI 415 | RIS and PACS Principles | 3 |
| MI 426 | Advanced Clinical Practice II | 4 |
| MI 435 | Seminar ARRT Exam Review II | 1 |

Semester Plan

First Year

| First Semester | | Credit Hours |
|---|--------------------------------|--------------|
| BSC 227 | Human Anatomy | 3 |
| BSC 227L | Human Anatomy Lab | 1 |
| CLS 105  | Medical-Lab Terminology (CT) | 3 |
| MTH 121  | Concepts and Applications (CT) | 3 |
| ENG 101  | Beginning Composition | 3 |
| CMM 103  | Fund Speech-Communication | 3 |
| UNI 100 | Freshman First Class | 1 |
| Credit Hours | | 17 |

Second Semester

| | | |
|------------------------|--------------------------------|-----------|
| BSC 228 | Human Physiology | 3 |
| BSC 228L | Human Physiology Lab | 1 |
| PHY 101 | Conceptual Physics | 3 |
| PHY 101L | Conceptual Physics Lab | 1 |
| ENG 201 | Advanced Composition | 3 |
| Core II Social Science | | 3 |
| FYS 100 | First Yr Sem Critical Thinking | 3 |
| Credit Hours | | 17 |

Second Year**First Semester**

| | | |
|---------------------|--------------------------|-----------|
| MI 202 | Patient Care Img Science | 3 |
| MI 201 | Intro to Radiography | 3 |
| MI 204 | Radiographic Anatomy | 3 |
| MI 205 | Imaging Procedures I | 4 |
| MI 206 | Clinical Practice I | 4 |
| MI 211 | Seminar Imaging Science | 1 |
| Credit Hours | | 18 |

Second Semester

| | | |
|--------|------------------------------|---|
| MI 208 | Pharmacology for Imaging Sci | 2 |
| MI 209 | Intro to Imaging Equip | 3 |
| MI 304 | Radiographic Pathology | 3 |
| MI 207 | Imaging Procedures II | 4 |
| MI 210 | Clinical Practice II | 4 |
| MI 212 | Seminar Imaging Sciences II | 1 |

Summer

| | | |
|---------------------|--|-----------|
| Statistics | | 3 |
| Credit Hours | | 20 |

Third Year**First Semester**

| | | |
|---------------------|----------------------------|-----------|
| MI 302 | Princ of Radiation Physics | 3 |
| MI 307 | Radiobiology | 3 |
| MI 303 | Image Acquisition | 3 |
| MI 321 | Imaging Procedures III | 4 |
| MI 305 | Clinical Practice IV | 4 |
| MI 306 | Seminar Imaging Science | 1 |
| Credit Hours | | 18 |

Second Semester

| | | |
|---------------------|------------------------------|-----------|
| MI 322 | Radiation Safety | 3 |
| MI 308 | Rad Image Analysis | 2 |
| MI 309 | Image Acquisition II | 3 |
| MI 310 | Clinical Practice V | 4 |
| MI 311 | Seminar Imaging Sciences III | 1 |
| Core II Humanities | | 3 |
| Credit Hours | | 16 |

Fourth Year**First Semester**

| | | |
|-------------------|--------------------------|---|
| MI 403 | Adv Practice Medical Img | 3 |
| MI 412 | Radiography Management I | 3 |
| Core II Fine Arts | | 3 |
| MI 409 | Adv Clinical Practice | 4 |

| | | |
|---------------------------|-------------------------------|------------|
| MI 401 | Seminar in Imaging Sci | 1 |
| Credit Hours | | 14 |
| Second Semester | | |
| MI 410 | Research Medical Imaging | 3 |
| MI 411 | Transcultural Healthcare | 3 |
| MI 413 | Radiography Management II | 3 |
| MI 415 | RIS and PACS Principles | 3 |
| MI 426 | Advanced Clinical Practice II | 4 |
| MI 435 | Seminar ARRT Exam Review II | 1 |
| Credit Hours | | 17 |
| Total Credit Hours | | 137 |