

# Bachelor of Science in Radiologic Science

Degree Plan — 2026–2027 Catalog

*This degree plan is for planning purposes only. The official degree plan is available on Degree Works through the student portal.*

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## Summary of Work Required for Degree

- Major: 78 semester hours (33 advanced hours)
- Basic Core: 42 semester hours
- Total: 120 semester hours (minimum 33 advanced/junior-senior level hours required)

*Important: A minimum of 30 semester hours must be completed at MSU Texas.*

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## Major Requirements (78 Semester Hours)

### Registry Credit

#### ARRT / ARDMS / NMTCB

- ☐ 42 semester hours awarded upon registry credential

## Major Professional Core & Statistics (24 Hours)

- ☐ RADS 4123 — Data Analysis (or approved statistics course)
- ☐ RADS 3203 — Pathophysiology
- ☐ RADS 3213 — Advanced Clinical Practice Skills
- ☐ RADS 3503 — Research
- ☐ RADS 3773 — Radiobiology & Protection
- ☐ RADS 4633 — Quality Improvement in Medicine
- ☐ RADS 4643 — Health Law
- ☐ RADS 4733 — Sectional Anatomy

## Professional Electives — Select Any 4 Courses (12 Hours)

- ☐ RADS 3313 — Radiation Therapy
- ☐ RADS 3823 — Interventional Imaging & Equipment
- ☐ RADS 3833 — Bone Densitometry †
- ☐ RADS 4513 — Administration & Supervision
- ☐ RADS 4533 — Informatics in Medical Imaging
- ☐ RADS 4543 — Pediatric Medical Imaging
- ☐ RADS 4703 — Principles of CT †
- ☐ RADS 4743 — MRI
- ☐ RADS 4753 — Mammography
- ☐ RADS 4763 — Mammographic Quality Practice †
- ☐ RADS 4773 — MRI Applications †
- ☐ RADS 4783 — CT Applications †
- ☐ RADS 4803 — Introduction to Nuclear Medicine
- ☐ RADS 4813 — Teaching Strategies

- ☐ RADS 4833 — Cardiac Interventional Procedures & Pathology †
- ☐ RADS 4843 — Vascular Interventional Procedures & Pathology †
- ☐ RADS 4853 — Essentials of Forensic Medical Imaging
- ☐ RADS 4863 — Essentials of Teaching
- ☐ RADS 4913 — Applied Research
- ☐ RADS 4933 — Independent Study in Advanced Medical Imaging
- ☐ RADS 4943 — Special Modalities in Medical Imaging

*† ARRT-approved structured education course. Course availability varies; some courses are not offered every year — check current course offerings before registering.*

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## Basic Core Requirements (42 Semester Hours)

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### Communication (6 hours)

- ENGL 1143 — Critical Reading & Writing (ENGL 1301)  
— Required

*Select one:*

- ENGL 1153 — Reading & Writing about Culture (ENGL 1302)
- ENGL 2123 — Rhetoric: Visuals/Infographics
- ENGL 2203 — Introduction to Professional Writing
- MCOM 2243 — Media Writing & Reporting (COMM 2311)
- MCOM 2403 — Social Media
- SPCH 1133 — Fundamentals of Speech Communication (SPCH 1315)
- SPCH 2423 — Interpersonal Communication (SPCH 1318)

### Mathematics (3 hours)

- MATH 1053 — Contemporary Math (MATH 1332)
- MATH 1203 — Math Analysis for Business (MATH 1324)
- MATH 1233 — College Algebra (MATH 1314)
- MATH 1534 — Pre-Calculus (MATH 2412)
- MATH 1634 — Calculus I (MATH 2413)

### Life & Physical Sciences (6 hours)

- BIOL 1013 — Introduction to Human Biology
- BIOL 1023 — Introduction to Global Biology
- BIOL 1114 — Life I: Molecular & Cell Concepts (BIOL 1406)
- BIOL 1134 — Anatomy & Physiology I (BIOL 2401)
- BIOL 1234 — Anatomy & Physiology II (BIOL 2402)
- CHEM 1103 — Introduction to Chemistry (CHEM 1305)
- CHEM 1143/1141 — General Chemistry I (CHEM 1311)
- CHEM 1243/1241 — General Chemistry II (CHEM 1312)
- CHEM 1303 — General-Organic-Biological Chemistry (CHEM 1306)
- ENSC 1114 — Foundations of Environmental Science (ENVR 1401)
- GEOS 1134 — Physical Geology (GEOL 1403)
- GEOS 1234 — Historical Geology (GEOL 1404)
- PHYS 1144 — General Physics I (PHYS 1401)
- PHYS 1244 — General Physics II (PHYS 1402)
- PHYS 1533 — Descriptive Astronomy
- PHYS 1624 — Mechanics/Wave Motion/Heat (PHYS 2425)
- PHYS 2644 — Electricity/Magnetism/Optics (PHYS 2426)

### Language, Philosophy & Culture (3 hours)

- ENGL 2413 — World Literature I (ENGL 2332)
- ENGL 2423 — World Literature II (ENGL 2333)

- ENGL 2613 — Survey of American Literature (ENGL 2327)
- ENGL 2623 — Survey of American Literature (ENGL 2328)
- ENGL 2813 — Survey of English Literature (ENGL 2322)
- ENGL 2823 — Survey of English Literature (ENGL 2323)
- FREN 1134 — Elementary French (FREN 1411)
- GERM 1134 — Elementary German (GERM 1411)
- HIST 1333 — Survey of Western Civilization I
- HIST 1353 — World Civilizations to 1500 (HIST 2321)
- HIST 1433 — Survey of Western Civilization II (HIST 2312)
- HIST 1453 — World Civilizations Since 1500 (HIST 2322)
- HUMN 2013 — The Ancient World
- HUMN 2023 — Medieval Cultures
- HUMN 2033 — Renaissance through Realism
- HUMN 2043 — Mid-19th to 20th Centuries
- PHIL 1033 — Introduction to Philosophy (PHIL 1301)
- PHIL 1533 — Critical Thinking & Reasoning (PHIL 2303)
- PHIL 2033 — Ethics (PHIL 2306)
- PHIL 2133 — Political Philosophy (PHIL 2307)
- PHIL 2213 — Asian Philosophy & Religion
- PHIL 2223 — Feminist Philosophy
- PHIL 2333 — Philosophy of Religion (PHIL 2321)
- PHIL 2503 — Ancient & Medieval Philosophy
- PHIL 2513 — Modern & Contemporary Philosophy
- SPAN 1134 — Elementary Spanish I (SPAN 1411)

### Creative Arts (3 hours)

- ART 1413 — Art Appreciation (ARTS 1301)
- MCOM 2213 — Appreciation of Film (COMM 2366)
- MUSC 1033 — Appreciation of Music (MUSC 1306)
- MUSC 1043 — American Popular Music (MUSC 1310)
- MUSC 2733 — Introduction to Western & World Music
- THEA 1103 — Acting for Everyone
- THEA 1113 — Women and Theatre
- THEA 1503 — Appreciation of Theatre (DRAM 1310)
- THEA 2423 — Dramatic Analysis (DRAM 2362)

### American History (6 hours)

- HIST 1133 — American History to 1865 (HIST 1301)
- HIST 1233 — American History Since 1865 (HIST 1302)

### Government / Political Science (6 hours)

- POLS 1333 — American Government
- POLS 1433 — American Government

### Social & Behavioral Sciences (3 hours)

- COUN 2023 — Human Development
- ECON 1333 — General Economics (ECON 1301)

- ECON 2333 — Macroeconomics (ECON 2301)
- HSHS 1023 — Understanding Community & Public Health
- PSYC 1103 — General Psychology (PSYC 2301)
- SOCL 1133 — Introductory Sociology (SOCI 1301)

### Component Area Option (6 hours)

Select two courses total from the categories below (courses may come from one or both categories):

#### Cultural & Global Understanding

- ART 1613 — Ceramics for Non-Majors
- CMPS 1023 — The Digital Culture
- EDUC 2013 — School & Society (EDUC 1301)
- FREN 1234 — Elementary French II (FREN 1412)
- GERM 1234 — Elementary German II (GERM 1412)
- GLBS 2503 — Introduction to Global Studies
- HIST 1353 — World Civilizations to 1500 (HIST 2321)
- HIST 1453 — World Civilizations Since 1500 (HIST 2322)
- HSHS 1013 — Global Health & Wellness
- HUMN 2013 — The Ancient World
- HUMN 2023 — Medieval Cultures
- HUMN 2033 — Renaissance through Realism
- HUMN 2043 — Mid-19th to 20th Centuries
- MCOM 1233 — Mass Media & Society (COMM 1307)
- MCOM 2523 — The Internet and Society
- MUSC 1043 — American Popular Music: The Melting Pot World (MUSC 1310)
- MUSC 2733 — Introduction to Western & World Music
- PHIL 2503 — History of Western Philosophy I
- PHIL 2513 — History of Western Philosophy II
- POLS 2523 — Foundations of Government & Politics (GOVT 2304)
- SOCL 2233 — Global Social Problems (SOCI 1306)
- SPAN 1234 — Elementary Spanish II (SPAN 1412)
- WGST 2503 — Introduction to Women's & Gender Studies

#### Inquiry & Creativity

- BUAD 1033 — Foundations of Business (BUSI 1301)
- CMPS 1044 — Computer Science (COSC 1420)
- COUN 2143 — Human Diversity
- ENGL 2123 — Rhetoric: Visual & Infographics
- HSHS 1023 — Understanding Community & Public Health
- HSHS 2013 — Inquiry into Holistic Human Wellness
- MCOM 1553 — Gender, Sexuality & Media
- MCOM 2833 — Website Design
- MWSU 2003 — Creative Inquiry: Interdisciplinary Thinking
- SCIE 2103 — Understanding Science, Engineering & Technology
- SOCL 1143 — Sociological Inquiry
- THEA 1103 — Acting for Everyone
- THEA 1113 — Women in Theatre

- THEA 2103 — Playwright/Scientist: Bedfellows

*Note: Two courses from one of the two Component Area categories above will satisfy this requirement (per Academic Council, April 2024).*

*TCCN = Texas Common Course Number, shown in parentheses where applicable.*