

APPLIED HEALTH SCIENCES (BAS), MEDICAL IMAGING SCIENCES SPECIALIZATION, INFORMATICS/PACS

Previous Degree Required: A.S. in Radiography or Diagnostic Medical Sonography

Eligible for Financial Aid: Yes

Delivery Method(s): On-Campus, Hybrid

Location(s): Melbourne, Palm Bay

Limited Access: No

Program Testing Requirements: Not Required

Academic Community: HSCI

Program Code: HSBSMDIC

Classification of Instructional Programs (CIP) Code: 51.2211

Florida Department of Education CIP Code: 1105122111

This is a track of the Medical Imaging Sciences specialization of the BAS Applied Health Sciences degree.

Informatics/PACS (Picture Archiving and Communication System) is used primarily in healthcare organizations to securely store and digitally transmit electronic images and clinically-relevant reports. The technology focused coursework allows imaging professionals registered in Radiography, Sonography, Nuclear Medicine or Radiation Therapy to expand their career options through this unique program. Many of the courses are available online.

Admissions requirements: Student must hold a current license and be in good standing with the American Registry of Radiologic Technologists, the American Registry of Diagnostic Medical Sonographers, or the Nuclear Medicine Technology Certification Board. Additionally, a student must have at least an Associate in Science (A.S.) degree in one of these disciplines from an institution accredited by an agency recognized by the U.S. Department of Education.

Refer to the [Bachelor of Applied Science \(BAS\) overview page](#) to find information about admission, graduation, general education and other requirements. Students who need technical electives will work with a bachelor's advisor to determine the courses best suited to their plan of study.

Visit the [program page](#) for more details and how to apply.

Program of Study

| Code | Title | Credit Hours |
|---|--------------------------------------|--------------|
| Associate Degree | | 60 |
| Credits earned from Associate Degree | | |
| General Education or Technical Concentration | | 21 |
| Credits from General Education (for A.S. degree students) or Technical Concentration (for A.A. degree students) | | |
| Applied Health Sciences Major Courses | | |
| HSC 3741 | Writing for Healthcare Professionals | 3 |
| ISC 3523 | Applied Scientific Thinking | 3 |
| Informatics/PACS Specialization Courses | | |
| COP 2700 | Database Techniques | 3 |

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|-----------|---|---|
| COP 3703 | Database Design and Architecture | 3 |
| CTS 1329 | Microsoft Client O/S | 3 |
| CTS 1383 | Microsoft Server O/S - Installation and Configuration | 3 |
| CTS 2370 | Virtual Infrastructure- Planning and Design | 3 |
| CTSC 1134 | Network+ | 3 |
| ISM 3011 | Introduction to Information Technology Management | 3 |
| ISM 3113 | Information Systems Analysis and Design | 3 |
| ISM 3320 | Information Systems Control | 3 |
| ISM 4220 | Network Management for Informational Professionals | 3 |
| ISM 4300 | Information Systems Operations Management | 3 |

Total Hours: 120

In accordance with Florida Statute and Florida Administrative Code, students must

- Satisfy the [foreign language competency](#) requirement
- Satisfy the [Civic Literacy Graduation Requirement](#).

Course Sequence

Below is the recommended sequence for taking courses in this degree. Using this guide and meeting with your assigned advisor each term is the key to successful program completion.

Please note that course prerequisites, including required developmental math, reading, or writing, need to be completed to continue on to the more advanced course. Click on the course number to see the requirements.

| Code | Title | Credit Hours |
|--------------------------------------|---|--------------|
| COP 2700 | Database Techniques | 3 |
| CTS 1329 | Microsoft Client O/S | 3 |
| HSC 3741 | Writing for Healthcare Professionals | 3 |
| ISC 3523 | Applied Scientific Thinking | 3 |
| COP 3703 | Database Design and Architecture | 3 |
| CTS 1383 | Microsoft Server O/S - Installation and Configuration | 3 |
| ISM 3011 | Introduction to Information Technology Management | 3 |
| Tech or Gen Ed Elective ¹ | | 3 |
| CTSC 1134 | Network+ | 3 |
| ISM 3113 | Information Systems Analysis and Design | 3 |
| ISM 3320 | Information Systems Control | 3 |
| Tech or Gen Ed Elective ¹ | | 3 |
| Tech or Gen Ed Elective ¹ | | 3 |
| CTS 2370 | Virtual Infrastructure- Planning and Design | 3 |
| ISM 4220 | Network Management for Informational Professionals | 3 |
| ISM 4300 | Information Systems Operations Management | 3 |
| Tech or Gen Ed Elective ¹ | | 3 |
| Tech or Gen Ed Elective ¹ | | 3 |

| | |
|--------------------------------------|-----------|
| Tech or Gen Ed Elective ¹ | 3 |
| Tech or Gen Ed Elective ¹ | 3 |
| Total Hours: | 60 |

¹ Select 21 credits to meet the general education requirement or technical elective requirement. Meet with a bachelor's advisor to determine the courses needed.

Learning Outcomes

1. Design an object-oriented design model for an Information System
 - *Core Ability Supported: Think Critically and Solve Problems*
2. Explain network troubleshooting methods
 - *Core Ability Supported: Think Critically and Solve Problems*
3. Manage database with Structured Query Language (SQL)
 - *Core Ability Supported: Process Information*
4. Explore information system organization frameworks, strategies, roles, and risks
 - *Core Ability Supported: Think Critically and Solve Problems*