

Proposal to revise the DIAGNOSTIC MEDICAL IMAGING PROGRAM

Writer: Sally Rensch

Facilitator: Pete Watkins

February 12, 2009

Changes are being made to the DMI Program for the following reasons:

- To comply with the College's new general education requirements
- To award credit for the clinical education component in Program courses
- To "standardize" the allocation of credits for clinical education in Allied Health courses
- To increase the number of laboratory hours to accurately reflect the student-faculty interaction at the clinical site.

Compliance with College's New General Education Requirements

The Diagnostic Medical Imaging Program will drop Psychology 101 – *Introduction to Psychology* from its curriculum and replace it with a social science elective. This change affords students the opportunity of meeting the general education Writing Intensive and Interpretive Studies requirements through either the humanities or social science electives.

Credit Awarded for Clinical Education in DMI Courses

In the past, students enrolled in the DMI Program were not awarded credit for the hours they spent in clinical education. This practice affected students' financial aid because the total number of credits they attempted in a semester often fell below full-time status. After researching other DMI program practices and communicating with the Program's clinical site preceptors, advisory committee members, and faculty, awarding credit for clinical education in all DMI Program courses is recommended.

"Standardizing" Credit Hours for Clinical Education in DMI Program Courses

In order to standardize the number of credits awarded to clinical experiences the Allied Health Department has developed a procedure for all Allied Health Programs. Programs in the Allied Health Department utilize the clinical experience in various ways. Some programs have only one or two clinical experiences towards the end of the curriculum (e.g. Clinical Laboratory Technology, Medical Assisting). Other programs require that students be in a clinical setting continually throughout the curriculum (e.g. Diagnostic Medical Imaging, Dental Hygiene, and Respiratory Care Technology). It is suggested that credit hours be awarded on the basis of the total number of clinical hours for the entire course. This process for awarding credits for clinical hours maintains the integrity of the program content while establishing a reasonable method for awarding credits. The system for awarding credit hours would be as follows:

100 to 200 total clinical hours per course = 1 credit

201 to 300 total clinical hours per course = 2 credits

301 to 400 total clinical hours per course = 3 credits

401 to 500 total clinical hours per course = 4 credits

501 to 600 total clinical hours per course = 5 credits

Thus for the DMI Program each course that contains clinical education will be assigned credits according to the following schedule.

- 13 clinical education hours (course total = 182 hours total) will be awarded 1 credit
- 14 clinical education hours (course total = 196 hours total) will be awarded 1 credit
- 21 clinical education hours (course total = 294 hours total) will be awarded 2 credits

Impact on DMI Courses

For DMI courses which use a combination of classroom lecture, laboratory experience and clinical education the following changes in credit hours would apply

	Current	Proposed
DMI 131: Patient Care and Procedures I	3-3-14-4	3-3-14-5
DMI 132: Patient Care and Procedures II	3-3-14-4	3-3-14-5
DMI 231: Patient Procedures III	2-2-21-3	2-2-21-4
DMI 232: Patient Procedures IV	2-5-21-4	2-5-21-5

For DMI courses where the instructional experience takes place completely at the clinical site it has been determined through faculty discussions, receiving input from the DMI Program’s advisory committee, and communication with clinical site supervisors that there are two types of educational experiences. Students receive additional input from program faculty similar to what might occur in an enhanced laboratory experience. Thus the amount of time faculty spend at the clinic site is greatly increased in comparison to the above courses: During their time at the clinical site faculty will

- Monitor students’ progress and identify required tasks which must be completed each week to meet the timeline as set forth in the accreditation guidelines
- Set new performance goals for students and revise them as students’ performance indicates readiness to complete more advanced skills
- Evaluate students’ competency in patient interactions and film evaluations and provide feedback to them to help ensure students master skills at the appropriate competency level
- Mentor students in developing critical thinking and problem-solving skills in order for them to apply them to the needs of the patient

Faculty interaction with students during clinical education is performed one-on-one and at times in small groups at the clinical affiliate. The type of activities described consists of three laboratory hours per week for the students where they are involved in activities as described above.

The second type of educational experience consists of the students performing clinical patient care procedures with supervision. The following course allocation of credits more accurately reflects these two types of educational experiences:

	Current	Proposed
DMI 198: Clinical Education III	1-0-14-1	0-3-13-2
DMI 199: Clinical Education IV	1-0-14-1	0-3-13-2
DMI 299: Clinical Education VII	1-0-14-1	0-3-13-2

It is important to note that although the total number of credits needed to graduate from the DMI Program will be increased from 71 to 75 credit hours, this is in alignment with other DMI Programs across the country, including Holy Family University.

Net effect of changes

Removing the Psychology 101 will remove three credits while redesignating the DMI courses adds seven credits for a net increase of four credits.

Diagnostic Medical Imaging

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
Summer Session II			
DMI 101 Introduction to DMI		2	
Math 118 or higher		3	Mathematics
ENGL 101 English Comp		3	English 101
FALL SEMESTER FIRST YEAR			
DMI 105 Image Prod. & Eval. I	Coreq.: DMI 131	4	
DMI 119 Intro to Rad. Physics		2	
DMI 131 Patient Care & Procedures I	Coreq.: DMI 105	5	
DMI 181 Rad. Osteology & Pathology I		2	
ENGL 102 English Comp	ENGL 101	3	ENGL 102 & Info Lit
Biology 109 Anatomy & Physiology I		4	Science
SPRING SEMESTER FIRST YEAR			
DMI 106 Image Prod. & Eval II	DMI 105 Coreq: DMI 132	2	
DMI 120 Rad. Equipment & Operation	DMI 119	2	
DMI 132 Patient Care & Procedures II	DMI 105 & 131 Coreq.: DMI 106	5	Am/Global Diversity
DMI 182 Rad. Osteology & Pathology II	DMI 181	2	
CIS 103 PC Applications		3	Tech Comp
Biology 110 Anatomy & Physiology II	Biol 109	4	

Summer I			
DMI 198 Clinical Education III	DMI 132	2	
Summer II			
DMI 199 Clinical Education IV	DMI 198	2	
FALL SECOND YEAR			
	DMI 106,120,199 Coreq: CIS 103	4	
DMI 221 Advanced Imaging/Computer Mod.			
DMI 231 Patient Procedures III	DMI 132	4	
DMI 261 Rad. Biology & Protection	DMI 119, 120	2	
Social Science Elective		3	Social Science
SPRING SECOND YEAR			
DMI 222 Angiographic/Interventional Proc.	DMI 221	2	
DMI 232 Patient Procedures IV	DMI 232	5	
Humanities Elective		3	Humanities
SUMMER I			
DMI 299 Clinical Education VII	DMI 232	2	
MINIMUM CREDITS NEEDED TO GRADUATE		75	

GENERAL EDUCATION REQUIREMENTS All General Education requirements are met through required courses (as indicated above) except for the **Writing Intensive** requirement and the **Interpretive Studies** requirement. Therefore, in order to graduate, students in this program must choose one course that is designated Writing Intensive and one course that is designated Interpretive Studies. The same course may be used to fulfill both requirements. A list of courses that fulfill these requirements and a more detailed explanation of the College's general education requirements appear elsewhere in this catalog and on www.ccp.edu.

For More Information Contact:

The Division of Math Science and Health Careers Room W2-7, 1700 Spring Garden Street, Philadelphia, PA 19130, Telephone (215) 751-8431; or the College Information Center (215) 751 8010.

Student Learning Outcomes

Regional accreditors now require that the College lists learning outcomes in the catalog. Please list learning outcomes for your program exactly as you wish them to appear in the catalog.

Upon completion of this program graduates will be able to:

- demonstrate they possess the knowledge and skills to competently and safely perform radiographic/fluoroscopic procedures as American Registry of Radiologic Technologists (ARRT) certified radiographers.
- demonstrate effective communication skills, critical thinking and problem solving skills
- demonstrate the importance of life-long learning and professionalism through advanced education and professional continuing education