

**Bunker Hill Community College**  
**2015-2017 College Catalog Addendum**  
Updated September 2016

**UPDATED ACCREDITATION STATEMENTS**

**Associate in Science Degree: Registered Nursing Program**

The Associate Degree Registered Nursing Program is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326; telephone: 404-975-5000; fax: 404-975-5020; email: info@acenursing.org; URL: <http://www.acenursing.org>, and approved by the Massachusetts Board of Registration in Nursing, 239 Causeway Street, Suite 500, 5th Floor, Boston, MA 02114; telephone: 617-973-0900; or 1-800-414-0168; fax: 617-973-0984 URL: <http://www.mass.gov/dph/boards/rn>  
*Continued Accreditation with Warning. Most recent Action July 2016. Next Follow-up Report-Fall 2018; Follow-up visit-Fall 2018.*

**NEW COURSES**

**MAT-098 Pre-statistics**

**3 Credits**

This course is designed as a substitute for Foundations of Algebra (MAT097) for non-STEM students who will be taking Statistics I (MAT181) for their program requirements. Topics include being able to summarize and analyze data distributions both numerically and graphically. Evaluating linear equations while understanding the concepts of slope, intercepts, inequalities, correlation and regression will be discussed. The concept of probability and probability distributions will be introduced for both discrete and continuous variables. This course does not satisfy degree requirements. Prerequisite: Grade of C or better in Foundations of Mathematics (MAT093) or placement.

**MLT-101 Introduction to Medical Lab Science and Urinalysis**

**4 Credits**

This course explores the nature and scope of work in the clinical laboratory. The primary focus will be the role of the laboratory in the healthcare system, duties of the Medical Laboratory Technician and professional conduct, safety in the laboratory, laboratory mathematics and quality control. The laboratory will include exercises that reflect each of the major clinical laboratory sub-disciplines: Clinical Chemistry, Diagnostic Microbiology, Hematology, and Blood Banking. Additional laboratory exercises will focus on routine urinalysis as well as normal and abnormal physiological functions of the renal system. A phlebotomy unit will teach the fundamental skills required to collect blood specimens for testing. Prerequisite: Admission to the Medical Laboratory Technician program.

\*\* Please note this course replaces the former MLT-111 & MLT112

**MUS-101 Introduction to Music Technology**

**3 Credits**

This course is designed for the music student who desires to acquire digital music software skills. This course emphasizes the use of Logic Pro 10, an industry standard in digital recording, editing and mixing, which is a priceless skill to have in today's rapidly changing

and competitive music industry. Topics of study include, digital music technology, music score writing and arranging, digital recording techniques, mastering concepts and performance. Prerequisite: Counterpoint and Harmonization (MUS135), Theory of Harmony (MUS123) or instructor's permission.

**PSY-201      Learning & Memory      3 Credits**

This course is an introduction to current views of behavioral change, learning, and remembering. The focus will be on concepts, theoretical issues, and applications of current research in the fields of behavioral and cognitive psychology. Prerequisite: Grade of C or better in Principles of Psychology (PSY101).

**VMA-125      Introduction to Adobe Suite      3 Credits**

This is an introductory course in Adobe Illustrator, Photoshop, and InDesign, the industry-standard applications for graphic design. Through in-class and independent projects, students will learn the basic functionality of Illustrator for digital illustrations, Photoshop for editing images, and InDesign for layout and design. Students will be introduced to the basic tools and vocabulary needed to continue building skills independently. Prerequisites: Writing Skills II (ENG095) and Foundations of Mathematics (MAT093). Please note: This course cannot be used for credit in the VMA Visual Design Option.

**VMA129      Visual Design with HTML & CSS      3 Credits**

Visual Design students will learn typography, layout and design in the context of interactive media, using HTML and CSS as visual design tools. Through a variety of onscreen projects, students will build on typesetting and layout skills and practice the principals of interactive design. Projects will focus on web typography, fluid design, functional style, navigation, and kinetic typography on screen. Prerequisite: Grade of C or better in Typography I: Form, Style, and Hierarchy (VMA132).

**VMA 133      Typography II: Layout, Typesetting and Systems      3 Credits**

In this course students will continue to build on typographic foundation principles, strengthening their skills through projects of moderate complexity. Projects involve information design and design of long-form content for print and digital books, magazines and other publication formats. Students will learn to develop consistent type and navigation systems, and explore the relationship between type and image. There will be an emphasis on working through the design process from sketch, revision, and final presentation. Software used: Adobe Illustrator, InDesign, and some Adobe Photoshop. Prerequisites: Grade of C or better in History of Graphic Design (VMA114) and Typography I (VMA132).

**VMA135      Illustration for Designers      3 Credits**

In this course students will use their observational and conceptual drawing skills to create projects in Adobe Illustrator that communicate concepts and information. There will be an emphasis on developing visual research, sketching and rendering practices in order to create illustrations, data graphics and logotypes using vector drawing techniques. Prerequisites: Grade of C or better in Drawing I (VMA104) and Visual Language: Composition and Color (VMA102).

**VMA290 Visual Design Portfolio****3 Credits**

In this course Visual Design majors will refine, expand on, and assemble existing portfolio content for transfer to 4-year design programs, internships, and entry-level employment. The portfolio content is evidence of the student's abilities in design, concept development, and technical skills. Students will produce a resume and self-marketing materials. They will learn presentation techniques and participate in portfolio review. Prerequisite: Grade of C or better in Visual Design I (VMA232). Pre/Co-requisite: Visual Design Lab II (VMA233).

**DELETED COURSES**

MLT-111, Intro to Clinical Laboratory Sciences I  
MLT-112, Urinalysis

**COURSE CORRECTIONS**

Course corrections are indicated in **red**.

**MIG -124F FT Medical Radiography Clinical I****2 Credits**

This course introduces students to the hospital and its radiology department. The course centers activities on observation and assisting with various basic radiographic procedures. Students begin to develop competency in the performance of radiographic examinations of the chest, abdomen, upper **and lower** extremities. Additional expenses may include supplies, equipment, online tracking software, and/or uniforms. Course meets two (2) days/week with 16 hours of clinical practice weekly.

**MIG -124P Part-Time Medical Radiography Clinical I****1 Credit**

This course introduces students to the hospital and its radiology department. The course centers activities on observation and assisting with various basic radiographic procedures. Students begin to develop competency in the performance of radiographic examinations of the chest, abdomen, upper **and lower** extremities. Additional expenses may include supplies, equipment, online clinical tracking software, and/or uniforms. Course meets two (2) evenings/week with 8 hours of clinical practice weekly.

**MIG-226 Radiologic Imaging II****3 Credits**

Using lecture and lab sessions, this course explores the concepts of quality assurance, quality control and film critique. Additional topics include but are not limited to: advance digital concepts, cardiovascular and interventional techniques, computers in imaging, and special radiographic procedures. **Prerequisite: Radiologic Imaging I (MIG120).**

**MIG-228F Full-Time Medical Radiography Clinical IV****3 Credits**

This course allows students to develop additional experience in the materials covered in Positioning I, Positioning II, and Positioning III, and further to expand their clinical skills. Additional expenses may include supplies, equipment, and/or uniforms. Course meets three (3) days/week with 24 hours of clinical practice weekly. Prerequisite: Full-time Medical Radiography Clinical III (MIG222F).

**MIG-228P Part-Time Medical Radiography Clinical IV****5 Credits**

This course allows students to develop additional experience in the materials covered in Positioning I, Positioning II, and Positioning III, and further to expand their clinical skills. Additional expenses may include supplies, equipment, and/or uniforms. Course meets five (5) days/week, with 35 hours of clinical practice weekly. Prerequisite: Part-time Medical Radiography Clinical III (MIG222P).

<b>PROGRAM MODIFICATIONS</b>
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**Associate in Science Degree: Medical Laboratory Technician****Program Grid**

Course Title	Course Number	Semester Taken	Credits	Prerequisites
<b>GENERAL EDUCATION COURSES</b>				
College Writing 1	ENG111		3	ENG095 and ESL098 or RDG095 or Placement
Statistics I	MAT181 Area 2		3	MAT097, MAT098 or Placement
Anatomy & Physiology 1	BIO203		4	BIO105, BIO108, or BIO195
Anatomy & Physiology II	BIO204		4	BIO203
Microbiology & Lab	BIO205		4	BIO204 or BIO195
Principles of Inorganic Chemistry & Lab	CHM120		4	ENG095 and RDG095 or ESL098 and MAT093 or Placement
Principles of Organic & Biochemistry & Lab	CHM121		4	CHM120
<b>Program Curriculum</b>				
College Writing II	ENG112		3	ENG111
Principles of Psychology	PSY101 satisfies Area 2 requirement		3	ESL098 or RDG095 or Placement
World View	From Area 3		3	
Intro to Medical Laboratory Science and Urinalysis	MLT101(fall only)	Semester 1	4	Admission to program

Immunology and Serology	MLT213 (fall only)	Semester 1	4	Admission to program
Medical Microbiology and Lab	MLT212 (spring only)	Semester 2	4	MLT101, MLT213
Hematology and Hemostasis	MLT211 (spring only)	Semester 2	4	MLT101, MLT213
Immunohematology	MLT241 (spring only)	Semester 2	4	MLT101, MLT213
Clinical Chemistry	MLT242 (summer only)	Summer	4	MLT101, MLT213, MLT212, MLT241, MLT211
Clinical laboratory Science Practicum	MLT251 (fall only)	Semester 3	12	All MLT courses
			71	

### Revised Program Information for the Medical Laboratory Technician Program

For this program, students must earn a numerical grade of 80 or higher in all Medical Laboratory Technician courses. Either failure to meet clinical objectives or failure to obtain a numerical course grade of 80 or better in all MLT courses constitutes failure in that course. Students may apply for readmission to the program.

All Medical Laboratory Technician students are required to: undergo a physical examination, complete the necessary immunization forms, including a three (3) dose Hepatitis B immunization series; carry malpractice and health insurance; and undergo a Criminal Offender Record Information (CORI) check and a Sex Offender Registry Information (SORI) check.

### Revised Pre-requisites for the Medical Laboratory Technician Program

- BHCC admissions application completed with documentation of high school diploma or GED certificate
- In- State Tuition Eligibility Form with one (1) form of citizenship documentation and two (2) forms of Massachusetts residency documentation
- Attach a copy of MANDATORY information session confirmation
- Achieve a reading level of 10th grade or higher on the College Placement Test (CPT)
- Complete the following courses with a grade C or better:
  - Statistics (MAT 181)
  - College Writing I (ENG 111)
  - BIO 203, Anatomy and Physiology I /Lab with a grade of C or better. (Credits for Anatomy and Physiology I/Lab that were earned more than five (5) years prior to enrollment in the Medical Laboratory Technician program are not accepted)

- BIO 204, Anatomy and Physiology II /Lab with a grade of C or better. (Credits for Anatomy and Physiology I I/Lab that were earned more than five (5) years prior to enrollment in the Medical Laboratory Technician Program are not accepted)
- BIO 205, Microbiology/Lab with a grade of C or better. (Credits for Microbiology /Lab that were earned more than five (5) years prior to enrollment in the Medical Laboratory Technician Program are not accepted)
- CHM 120, Principles of Inorganic Chemistry/Lab
- CHM 121, Principles of Inorganic Chemistry & Biochemistry/Lab

### Revised Program Accreditation for the Medical Laboratory Technician Program

Graduates have a 92% completion rate, an 88% pass rate on certification exams and a 100% employment rate. Students successfully completing the program are eligible to take the American Society for Clinical Pathology (ASCP) Medical Laboratory Technician (MLT) certification examination. The Program is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS), 5600 North River Rd. Suite 720, Rosemont, IL 60018, telephone 773-714-8880. Graduates of the Program are eligible to take national certification.

### Associate in Science Degree: Visual Design Option

\* This program replaces the former Associate in Science Degree Graphic Design Option

#### Revised Program Grid

Course Title	Course Number	Semester Taken	Credits	Prerequisites
<b>GENERAL EDUCATION COURSES</b>				
College Writing I	ENG111		3	ENG095 and ESL098 or RDG095 or placement
College Writing II	ENG112		3	ENG111
Individual/Society	From Area 2		3	
Introduction to Mass Media	VMA111 satisfies Area 3		3	ENG095 and MAT093
Quantitative Thought	From Area 4		3	MAT097 or placement
Scientific View of the World	From Area 5		4	
Drawing I	VMA104 satisfies Area 6		3	ENG095
<b>CONCENTRATION COURSES</b>				
VMA Freshman Seminar	VMA100 satisfies LCS requirement		3	ENG095 and MAT093
Visual Design:	VMA102		3	ENG095 and MAT093

Composition and Color				
Digital Image-Making for Artists and Designers	VMA106		3	ENG095, MAT093, VMA102, VMA104
Visual Design: Form and Time	VMA103		3	VMA102
History of Graphic Design	VMA114	Spring	3	ENG095 and MAT093
Typography	VMA132		3	ENG095 and MAT093
Typography II	VMA133		3	VMA114 and VMA132 w/C or better
Figure Drawing or Graphic Design Internship	VMA204 or VMA299G			VMA104 VMA232
Illustration for Designers	VMA135		3	VMA102 and VMA104 w/C or better
Design Communication I	VMA232	Fall	3	VMA131 and VMA132
Design Communication II	VMA233	Spring	3	VMA232
Menu A: Exploratory Elective		Spring	3	VMA232 or chair approval
Menu B: Web/Interactive/Digital Elective			3	
Menu C: Career/Transfer Elective			3	
TOTAL CREDITS			64	

### Certificate Program: Pastry Arts

ENG111 is no longer required for this program. It has been replaced with CUL211.

#### Revised Program Grid

COURSE TITLE	COURSE NUMBER	SEMESTER TAKEN	CREDITS	PREREQUISITES
Food Service Sanitation and Skills	CUL111		3	
Introduction to Culinary Arts	CUL115	Fall	4	co-req CUL125

Principles of Baking	CUL125	Fall	4	co-req CUL115
Café and Bistro Cuisine	CUL135	Spring	4	CUL115 and CUL125; co-req CUL145
Advanced Desserts and Pastries	CUL145	Spring	4	CUL115 and CUL125; co-req CUL135
Menu Design and Purchasing	CUL 211		3	
Cake Decorating	CUL119		3	
Classical and International Pastries	CUL217	Spring	4	CUL145
<b>TOTAL CREDITS</b>			<b>29</b>	

### COURSE-LEVEL & PREREQUISITE MODIFICATIONS

#### Course Modifications

VMA-106 Digital Image Making 3 Credits

\*This course replaces the former VMA-105 Digital Imaging With Photoshop  
 In this course students will learn the Adobe Photoshop and conceptual skills necessary to create digital illustrations, collage and mixed media work comprised of photography, scanned images, found materials and student artwork. Students will learn the technical aspects of digital imaging such as scanning, image resolution, color reproduction, nondestructive editing, and image retouching and manipulation. These will be applied to projects where students explore principals of color and composition, meaning, expression, representation, sequence and narrative. Prerequisites: Grade of C or better in Drawing I (VMA104) and Visual Language: Composition and Color (VMA102).

VMA-132 Typography I: Form, Style and Hierarchy 3 Credits

\*This course replaces the former Typography I  
 This course examines the theory and practice of typographic principles. Students undertake creative projects in typographic composition. The course considers both effectiveness and aesthetic value of the composition. The course is required of all first year graphic arts students. (Fall semester only.) Prerequisites: Writing Skills II (ENG095) and Foundations of Mathematics (MAT093).

VMA-232 Visual Design Lab I 3 Credits

\*This course replaces the former VMA-132, Design Communication I



In this rigorous studio lab course, students will strengthen foundations of visual language, typography, image, and materials by working on pragmatic and expressive design problems. Students explore design process methods of research, concept development, sketching, critique and revision in order to produce and present effective visual design solutions. Students learn to analyze and discuss their work, and the work of others, through frequent class critiques. Prerequisites: Grade of C or better in Typography I: Form, Style, and Hierarchy (VMA132) and Illustration for Designers (VMA135).

VMA-233 Visual Design Lab II 3 Credits

\*This course replaces the former VMA-233 Design Communication II

This course is a continuation of Visual Design I where visual design methods and principles are applied to projects of increased complexity. Class discussions will include exploration and overview of aspects of print and digital production methods as they pertain to the visual designer. Prerequisite: Grade of C or better in Visual Design Lab I (VMA232).

#### Prerequisite Modifications

MAT-098, Pre-Statistics

This Course may be used as a prerequisite for the following courses as an alternative to MAT-097:

MAT-171 Finite Math

MAT-172 Contemporary Math I

MAT-173 Contemporary Math II

MAT-181 Statistics

BUS-103 Principles of Retailing

BUS-224 Merchandising

ECO-201 Macro Economics

ECO-202 Micro Economics

MAN-125 Project Management

FPS-127 Fire Protection Hydraulics

PMT-111 Pharmacy Practice for Pharmacy Technicians I

Associate in Science Degree: Registered Nursing Program

BIO 204 is no longer a prerequisite to the Registered Nursing Program.

#### **PROGRAM OF STUDY INFORMATION CORRECTIONS**

Corrections are indicated in **red**.

From page 73 of the 2015-2017 Catalog

#### **Associate in Science Degree: Medical Imaging Program**

The Medical Imaging Program prepares students in four different Associate in Science Degree options:

The full-time Cardiac Sonography Option – 24 months in duration. See page 73.

The full-time General Sonography Option – 24 months in duration. See page 132.

The full-time Medical Radiography Option – 21 months in duration. See page **173**.

The part-time Medical Radiography Option – 35 months in duration. See page **174**.

The application process for the Medical Imaging Program is highly competitive and selective. All applicants are ranked based on prerequisite grades, Test of Essential Academic Skills VI (TEAS VI) results in Reading, Math and English/Language, as well as grades earned in any program required non-core courses completed at the time of application. Consideration will also be given for verified related work experience, and/or completion of prior college degree programs, but these are not mandatory to apply. Applicants must achieve a CPT reading level of 10th grade or higher, or a LOEP score of 98 or higher for ESL applicants, to proceed to take the TEAS VI Test. The highest ranked students for each A.S. Program will be invited by Admissions to complete the TEAS VI test. Standby lists will be generated annually for each A.S. Degree Program. Stand-by students not obtaining a seat in that year will be required to reapply for future admission to any Medical Imaging Program.

From page 74 of the 2015-2017 Catalog

**AFTER ALL PREREQUISITES ARE COMPLETED:**

- **Submit official college transcripts to the Admissions Office, if applicable.**
- Prospective students must apply through Admissions and Enrollment Services during the enrollment period. **Approximate application dates for the Fall program are October – January 10<sup>th</sup> for admission to the program for the next Fall start.** Check with Admissions and Enrollment Services for exact timelines.
- **Provide verification of related healthcare work experience, if applicable, as documented on letterhead by a supervisor, with stated title and contact information. (Related healthcare work experience is not mandatory to apply to the Medical Imaging Programs.)**
- Top-scoring applicants in each option will be invited by Admissions to complete the Test of Essential Academic Skills VI (TEAS VI). Job shadows will be recommended to accepted students and those on the stand-by list.
- Applicants must score at least 47.6% in reading, 46.7% in math and 47.6% in English/Language on the TEAS VI to be considered for the Medical Imaging Programs.
- The Medical Imaging Admissions Committee will evaluate each candidate's record after completion of the TEAS VI test. Admission to the Program will be based on overall ranking of applicants as described previously.
- Stand-by lists will be developed for each option annually. Stand-by students not offered a seat will need to reapply the next year for future consideration.
- Applicants not selected for admission to the Medical Imaging Program must meet with a member of the advising staff for guidance before reapplication.

**\*\*NOTE: Applicants may go to the Medical Imaging Department website and download the Medical Imaging Information Packet to use as a guide through the application process.**

## **STUDENT PAYMENT INFORMATION**

## **Cost of Attendance**

Changes to the 2015-2017 College Catalog are indicated in red.

The Board of Higher Education sets tuition and the College sets fees. Both are subject to change.

### Tuition and Fees

Massachusetts Residents (MA): ~~\$149.00/credit~~ **\$162/credit**

per credit: \$24 tuition/~~\$115 course fees~~/\$10 technology fee **\$128 course fees**

Non-Massachusetts Residents and International Students: ~~\$355.00/credit~~ **\$368/credit**

per credit: \$230 tuition/~~\$115 course fees~~/\$10 technology fee **\$128 course fees**

The New England Regional Student Program: ~~\$161.00/credit~~ **\$174/credit**

per credit: \$36 tuition/~~\$115 course fees~~/\$10 technology fee **\$128 course fees**