



**El Paso Campus Addendum  
Catalog Addendum for Pima Medical Institute 2016-2017 Catalog published April 2016**

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El Paso, Texas 79915  
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INQUIRIES OR COMPLAINTS REGARDING THIS OR ANY OTHER PRIVATE VOCATIONAL SCHOOL MAY BE MADE TO:

TEXAS WORKFORCE COMMISSION  
CAREER SCHOOLS AND COLLEGES  
ROOM 104-T  
101 EAST 15TH STREET  
AUSTIN, TX 78778-0001

Web: <http://csc.twc.state.tx.us>  
Phone: 512.936.3100

and/or

TEXAS HIGHER EDUCATION COORDINATING BOARD  
CAREER TECHNICAL PROGRAMS  
1200 EAST ANDERSON LANE  
AUSTIN, TX 78711

Web: <http://www.thecb.state.tx.us/index>  
Phone: 512.427.6101

**Director's Signature:**

Pima Medical Institute is approved and regulated by the Texas Workforce Commission, Career Schools and Colleges, Austin, Texas.

The information contained in this Academic Catalog published April 2018 and the associated catalog addendum dated April 15, 2018 is true and correct to the best of my knowledge.

  
Keever Jankovich, Campus Director

  
Date

**Revision date: 04/15/2018**

| Staff:  |  |
|---|--|
| Aguilar, Sylvia<br>Certified Medical Assistant, Mansfield Business School   | Career Services Advisor<br>Full-Time     |
| Cardenas, Ana<br>B.S., Human Resource Management,<br>Western Governor University  | Financial Aid Advisor<br>Full-Time       |
| Escajeda, Jessica<br>M.B.A, University of Phoenix<br>B.A., Criminal Justice, University of Phoenix                                  | Medical Career Specialist<br>Full-time   |
| Figueroa, Gabriel   | Security Guard                           |
| Figueroa, Omar<br>M.B.A., University of Phoenix<br>B.S., Business Management, University of Texas at El Paso                        | Medical Career Specialist<br>Full-time   |
| Jackson, Ana  | Front Desk Receptionist<br>Full-time     |
| Jankovich, Kever<br>M.S., Public Relations, Golden Gate University<br>B.A., Communication, Santa Clara University                   | Campus Director<br>Full-time             |
| Jauregui, Griselda<br>B.A., Social Psychology, Park University  | Financial Coordinator<br>Full-time       |
| Laris, Valeria<br>Certified Medical Assistant, International Institute of the Americas  | Office Assistant<br>Full-time            |
| Lee, Grace<br>M.A., International Communication, University of Denver<br>B.A., Communication, California State University Fullerton | Financial Aid Officer<br>Full-Time       |
| Lopez, Jennifer<br>B.A., Management, University of Texas at El Paso   | Office Assistant<br>Full-time            |
| Nava, Brenda<br>M.A., Human Resource Mangement, Webster University<br>B.S., Management, Park University                             | Career Services Advisor<br>Full-Time     |
| Romero, Alejandro<br>B.S., Medicine, University of Cd. Juarez   | Faculty Coordinator<br>Full-time         |
| Salas-Ladd, Patsy<br>M.S., Education, New Mexico State University<br>B.S., Business Computer Systems, New Mexico State University   | Office Manager/Registrar<br>Full-time    |
| Theroux, Virginia<br>M.B.A, University of Phoenix<br>B.S., Business Management, University of Phoenix                               | Career Services Coordinator<br>Full-time |

|   |   |
|---|---|
| Tovar, Daniel<br>M.B.A., University of Phoenix<br>B.S., Business Management, University of Phoenix                        | Medical Career Specialist<br>Full-time    |
| Valdez, Jose<br>M.A. Social Work University of Texas at El Paso<br>B.A., Criminal Justice, University of Texas at El Paso | Student Services Coordinator<br>Full-Time |

| FACULTY:  |   |
|---|---|
| Arreola, Eva<br>D.D.S., Dentistry, University of Cd. Juarez<br>M.D. Medical, University of Cd. Juarez   | Dental Assistant Lead Instructor<br>Full-time                                       |
| Arroyo, Juan<br>B.S., Medicine, University of Cd. Juarez<br>A.A.S., General Nursing, University of Cd. Juarez   | MDA Instructor<br>Full-time   |
| Betancourt, Alexis<br>B.S., University Studies, University of Texas at Arlington<br>A.A., Arts, El Paso Community College   | Pharmacy Technician Instructor<br>Full-Time   |
| Cantu Montes, Delia<br>M.A., Guidance & Counseling, New Mexico State University<br>B.A., Psychology, New Mexico State University  | Career Prep Instructor<br>Part-time   |
| Cuellar, David<br>D.D.S., Dentistry, University of Cd. Juarez<br>Certified Dental Assistant, Pima Medical Institute   | Dental Assistant Instructor<br>Part-time  |
| Enriquez Arroyo, Luis<br>Certified Medical Office Specialist, Kaplan College  | MAA Instructor<br>Part-time   |
| Escobedo, Priscilla<br>Certified Medical Assistant, Western Technical College   | MAA Instructor<br>Full-time   |
| Gomez, Crystal Yvette<br>B.S., Biological Sciences, University of Texas at El Paso<br>A.A.S., Occupational Therapy Assisting, Anamarc College   | Occupational Therapy Assistant Instructor<br>Part-time                              |
| Gonzalez, Dr. Eugenia<br>Ph.D. Psychology, University of Texas at El Paso<br>M.S., Occupational Therapy, Colorado State University<br>B.S., Occupational Therapy, University of Texas Medical Branch, School of Allied Health | Occupational Therapy Assistant Program Director<br>Full-time                        |
| Guinto, Jose<br>B.S., Agricultural Science, Brigham Young University<br>A.A.S., Tropical Agriculture, Brigham Young University<br>M.D., Central America Health Sciences, University School of Medicine                        | Career Prep Instructor<br>Full-Time   |
| Gutierrez, Sandra<br>B.S., Occupational Therapy, University of Texas at El Paso<br>A.A.S., Occupational Therapy Assisting, Anamarc College  | Occupational Therapy Assistant Clinical Director/Fieldwork Coordinator<br>Full-time |
| Holmes, Megan<br>A.A.S., Veterinary Technician, Bel-Rea Institute   | Veterinary Assistant Instructor<br>Full-Time  |
| Lawrence, Leticia<br>A.A.S., Veterinary Technician, Blue Ridge Community College  | Veterinary Assistant Instructor<br>Full-Time  |

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| Ornelas, Victor<br>M.S. Statistics, University of Texas , El Paso<br>B.S., Industrial Engineering, Technical Institute of Juarez, Mexico   | Diagnostic Medical Sonography Instructor<br>Part-Time                 |
| Orta-Martin, Rogelio<br>M.B.A, Business Administration, Florida International University<br>B.S., Radiology Sciences, Florida Hospital College of Health Sciences<br>A.A.S, Radiologic Technology, Florida National College  | Radiography Program Director<br>Full-Time                             |
| Prangner, Melanie<br>B.S., Health Promotion, University of Texas at El Paso<br>A.A.S., Occupational Therapy Assisting, Anamarc College   | Occupational Therapy Assistant Instructor<br>Part-time                |
| Raia, Frederick<br>B.S., Criminal Justice, Florida International University<br>A.A.S., Radiologic Science, Keiser University   | Radiography Clinical Director<br>Full-Time                            |
| Rascon, Alvaro<br>A.A.S, Medical Lab Technician, Vista College   | Medical Assistant Instructor<br>Part-Time                             |
| Ricciuti, Francesca<br>B.S., Interdisciplinary Studies, University of Texas at Arlington<br>Undergraduate Minor, Psychology, University of Texas at Arlington<br>Certified Pharmacy Technician, PTCB   | Pharmacy Technician Program Director<br>Full-Time                     |
| Rivera, John<br>B.S., Business Administration, University of Phoenix<br>Certified Medical Assistant, Computer Career Center  | MA & Phlebotomy Instructor<br>Full-Time                               |
| Rivera, Maria Elena<br>B.S., Health Care Management, Baptist School of Health Professions, San Antonio, TX<br>A.A.S., Diagnostic Medical Sonography, El Paso Community College<br>A.A.S., Business Administration, El Paso Community College<br>Certified Medical Assistant, El Paso Community College | Diagnostic Medical Sonography Clinical Director<br>Full-Time          |
| Rowley, Dr. Mark Bernard<br>D.V.M., Veterinary Medicine, Texas A & M, College Station, TX<br>B.S., Veterinary Science, Texas A & M, College Station, TX<br>B.S., Animal Science, Texas A & M, College Station, TX  | Veterinary Assistant/Veterinary Technician<br>Instructor<br>Full-Time |
| Shellenback, Kurt<br>B.S., Biology, Ithaca College<br>Certificate, Diagnostic Medical Sonography, Rochester Institute of Technology,<br>RDMS Certification<br>RVT Certification  | Diagnostic Medical Sonography Program Director<br>Full-Time           |

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| <p>Swenson, Daniel<br/>         B.A., Liberal Arts, Argosy University, Phoenix University<br/>         A.A.S., Veterinary Techonology, Broadview University, UT<br/>         CVT Certification</p> | <p>Veterinary Assistant/Veterinary Technician<br/>         Program Director<br/>         Full-Time</p> |
| <p>Zammarripa, Dina<br/>         A.A.S., Veterinary Technician, Bel-Rea Institute</p>  | <p>Veterinary Technician Clinical Director<br/>         Full-Time</p>                                  |

| <b>ONLINE FACULTY:</b>  |  |
|---|--|
| Colin Easom<br>M.A. Library and Information Management, Liverpool John Moores University, England<br>B.A. Librarianship and Information Studies, Liverpool Polytechnic, England               | Veterinary Technician - Online instructor<br>Part-time |
| Jaime Kazal<br>M.Ed. Educational Leadership, Northern Arizona University<br>B.A. Elementary Education, University of Arizona  | Veterinary Technician - Online instructor<br>Part-time |
| Lucas Micromatis<br>M.A. Media Arts, University of Arizona<br>B.A. English Literature, Berry College  | Veterinary Technician - Online instructor<br>Part-time |
| Jamie Morgan<br>B.S. Animal Health Technology, Murray State University  | Veterinary Technician - Online instructor<br>Part-time |
| Geoffrey Natividad<br>D.Ph. Albany College of Pharmacy and Health Sciences<br>B.S. General Science, Seattle University<br>B.A. Humanities, Seattle University                                 | Veterinary Technician - Online instructor<br>Part-time |
| Susan Rose<br>B.S., Animal Science, University of Arizona   | Veterinary Technician - Online instructor<br>Part-time |
| Charlotte Rosenthal<br>C.V. T. Arizona Veterinary Medical Examining Board   | Veterinary Technician - Online instructor<br>Part-time |
| Amy Sloan<br>Ed.D. Higher & Postsecondary Education, Argosy University<br>M.A. English Literature, University of Tennessee<br>B.A. University Scholar (English Literature), Baylor University | Veterinary Technician - Online instructor<br>Part-time |
| Traci Tawney<br>M.Ed. Special Education, University of Phoenix<br>B.A. Communications, University of Washington   | Veterinary Technician - Online instructor<br>Part-time |
| Melinda Tolitsky<br>D.C., Parker Chiropractic College<br>B.S. Anatomy, Parker Chiropractic College<br>B.A. Spanish, Biology, Chemistry, University of Arizona                                 | Veterinary Technician - Online instructor<br>Part-time |

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### **Hours of Operation:**

|                     |  |
|---------------------|--|
| Hours of Operation: | 7:00 AM - 10:10 PM; Monday through Thursday and 7:00 AM - 5:00 PM; Friday  |
| Class Schedule:     | Morning Classes: 8:00 AM - 12:00PM; Monday through Friday<br>Afternoon Classes: 1:00 PM - 5:00 PM; Monday through Friday<br>Night Classes: 5:40 PM - 10:00 PM; Monday through Thursday |
| Student Breaks:     | 10 minutes per hour, not exceeding 40 minutes per 4 hours  |
| Mealtimes:          | Pima Medical Institute does not provide "mealtime", however students are welcome to eat meals during student breaks  |

### **Facility Description**

The El Paso campus occupies 40,000 sq. ft. anchored at either end by an administration wing (north) or a faculty wing (south), with classrooms and labs centrally located between.

Administration Wing: 11 offices, work room, testing & financial aid workstations, reception area

Faculty Wing: 10 offices, 8 workstations, work room, reception area, break room

Classroom & Lab Core: 7 Labs, 4 Lab/Classroom combos, 9 classrooms, 1 computer lab

Separate Student Lounge with outdoor patio access. A dental lab/classroom (6 dental chairs, mold lab, sterilization) and Vet Tech lab/classroom (4 exam tables, surgery suite, x-ray room, bathing tub)

Occupational Therapy Assistant equipment includes the basic activities of daily living and instrumental activities equipment consisting of a bathroom, bedroom and a kitchen area. The areas contain a bathtub, commode/toilet, bathroom sink, hospital bed, refrigerator, dishwasher, electric stove, microwave, upper and lower kitchen cabinets, washer/dryer, table with chairs, sofa, privacy screens, and other variety of adaptive equipment and devices to promote independence in daily living activities. The lab also includes items typical to a rehabilitation occupational space including mat tables, hydro collator, physical agent modalities, bolster set, children crafts, scooter boards, weights, exercise equipment, wheelchairs, walkers and various tools for visual and sensory motor skills.

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### **Admission Requirements and Procedures:**

Admission requirements are noted on page 130 of the Academic Catalog. Students may not start class after the third day of classes. Additional requirements are as follows:

#### **Wonderlic Test**

Degree Programs:

- Applicants for degree programs are required to take the Wonderlic SLE and receive a minimum score of 20.

Non-Degree Programs:

- Applicants for non-degree programs are required to take the Wonderlic SLE and receive a minimum score of 14.



### **Math Admission Test**

Degree Programs:

- Applicants for degree programs are required to take a Math Admission Test and receive a minimum score of 80% (24 out of 30 correct).
- The use of a calculator is allowed.
- No time limit.
- The test can be taken up to 3 times using a different version for each attempt.

Non-Degree Programs:

- Administering the Math Admission Test to non-degree applicants is recommended to identify students lacking basic math proficiency. This test is required for the Dental Assistant and Pharmacy Technician Programs. It is not required for applicants to the Medical Assistant and Veterinary Technician Programs.

### **Retesting**

- A student must wait a minimum of five calendar days prior to retaking an entrance test.

*PMI recommends that before any student attends a Career Prep course(s) outside of normal sequencing, the student should request approval from the Campus Director.*

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### **Revisions to the 2018-2019 Catalog published April 2018:**

**The following statement is currently in the 2018-2019 catalog on page 60 under Program Information:**

Graduates of this program are granted an Associate of Applied Science degree.

**This statement has been replaced with the following:**

Graduates of this program are granted an Associate of Applied Science degree. Graduates of this program are eligible to apply to sit for the American Registry of Diagnostic Medical Sonographers Examinations.

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**The following statement is located in the Class Starts and Postponement section on p. 130 of the 2018-2019 catalog:**

Postponement by the school within thirty (30) days of the original starting date will not alter the terms and conditions of the enrollment agreement. Postponement by the school beyond thirty (30) days of the original starting date will terminate the enrollment agreement with all monies paid by the applicant to be refunded in full.

**This statement has been replaced with the following:**

Postponement of a starting date, whether at the request of the school or the student, requires a written agreement signed by the student and the school. The agreement must set forth:

- A. Whether the postponement is for the convenience of the school or the student, and;
- B. A deadline for the new start date, beyond which the start date will not be postponed.

If the course is not commenced, or the student fails to attend by the new start date set forth in the agreement, the student will be entitled to an appropriate refund of prepaid tuition and fees within 30 days of the deadline of the new start date set forth in the agreement, determined in accordance with the school's refund policy and all applicable laws and rules concerning the Private Occupational Education Act of 1981.

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**The following information is currently listed in the 2018-2019 catalog on page 132 under Student/Instructor Ratio:**

The laboratory ratio of students to instructor does not exceed 20 to 1. The Texas classroom ratio does not exceed 30 to 1. In other states, the classroom ratio does not exceed 35 to 1. The online classroom ratio does not exceed 25 to 1. Programmatic variations are published in the catalog addenda.

**This information has been replaced with the following:**

**PMI Standard Ratio Language**

The laboratory ratio of students to instructor does not exceed 20 to 1. The Texas classroom ratio does not exceed 30 to 1. In other states, the classroom ratio does not exceed 35 to 1. The online classroom ratio does not exceed 25 to 1. Programmatic variations are published in the catalog addenda.

**Arizona**

| Program                       | Student : Instructor Ratio      |
|-------------------------------|---------------------------------|
| Dental Assistant              | Lab 12:1                        |
| Nursing Assistant/ Nurse Aide | Clinic: 10:1<br>Lab 20:1        |
| Nursing                       | Clinic 10:1                     |
| Paramedic                     | Classroom 24:1<br>Clinical: 4:1 |
| Pharmacy Technician           | Lab 12:1<br>Lab (PHA 225) 8:1   |
| Radiography                   | Lab 10:1                        |
|                               | Clinic (Technologist) 1:1       |
|                               | Clinic (CI) 10:1                |
| Respiratory Therapy           | Clinic 6:1                      |
| Surgical Technician           | Lab 10:1                        |

**California**

| Program             | Student : Instructor Ratio                 |
|---------------------|--|
| Dental Assistant    | Lab 12:1                                   |
|                     | Preclinical/clinical lab 6:1               |
| Pharmacy Technician | Lab 12:1                                   |
|                     | Lab with sterile compounding (PHA 225) 8:1 |
| Radiography         | Lab 10:1                                   |
|                     | Clinic (Technologist) 1:1                  |
|                     | Clinic (CI) 10:1                           |
| Respiratory Therapy | Clinic 6:1                                 |

**Colorado**

| <b>Program</b>                | <b>Student : Instructor Ratio</b> |
|-------------------------------|-----------------------------------|
| Nursing Assistant/ Nurse Aide | Clinic: 10:1<br>Lab 10:1          |
| Dental Assistant              | Lab 12:1                          |
| Practical Nursing             | Lab 10:1                          |
| Pharmacy Technician           | Lab 12:1<br>Lab (PHA 225) 8:1     |
| Medical Laboratory Technician | Lab 10:1                          |
| Radiography                   | Lab 10:1                          |
|                               | Clinic (Technologist) 1:1         |
|                               | Clinic (CI) 10:1                  |
| Respiratory Therapy           | Clinic 6:1                        |
| Surgical Technician           | Lab 10:1                          |

**Nevada**

| <b>Program</b>      | <b>Student : Instructor Ratio</b>                      |
|---------------------|--|
| Dental Assistant    | Lab 12:1   |
| Pharmacy Technician | Lab 12:1<br>Lab with sterile compounding (PHA 225) 8:1 |
| Radiography         | Lab 10:1   |
|                     | Clinic (Technologist) 1:1                              |
|                     | Clinic (CI) 10:1                                       |
| Respiratory Therapy | Clinic 6:1   |

**New Mexico**

| <b>Program</b>      | <b>Student : Instructor Ratio</b>  |
|---------------------|--|
| Dental Assistant    | Lab 12:1   |
| Dental Hygiene      | Lab 10:1 for RDH 215 Biomaterials<br>All other labs, preclinical, and clinical 5:1 |
| Pharmacy Technician | Lab 12:1<br>Lab with sterile compounding (PHA 225) 8:1                             |
| Practical Nursing   | Lab 10:1   |
|                     | Clinic 8:1   |
| Radiography         | Lab 10:1   |
|                     | Clinic (Technologist) 1:1  |
|                     | Clinic (CI) 10:1   |
| Respiratory Therapy | Clinic 6:1   |

**Texas**

| <b>Program</b>                       | <b>Student : Instructor Ratio</b>  |
|--------------------------------------|--|
| GENERAL                              | Classroom 30:1   |
| Nursing Assistant/ Nurse Aide        | Clinic: 10:1<br>Lab 10:1   |
| Dental Assistant                     | Lab 12:1   |
| Dental Hygiene                       | Lab 10:1 for RDH 215 Biomaterials<br>All other labs, preclinical, and clinical 5:1 |
| Veterinary Technician (El Paso Only) | Lab (live animal) 4:1  |
| Radiography                          | Lab 10:1   |
|                                      | Clinic (Technologist) 1:1  |
|                                      | Clinic (CI) 10:1   |
| Pharmacy Technician                  | Lab 12:1   |
|                                      | Lab (PHA 225) 8:1  |
| Respiratory Therapy                  | Clinic 6:1   |

**Washington**

| <b>Program</b>      | <b>Student : Instructor Ratio</b>  |
|---------------------|--|
| Dental Assistant    | Lab 12:1   |
| Dental Hygiene      | Lab 10:1 for RDH 215 Biomaterials<br>All other labs, preclinical, and clinical 5:1 |
| Pharmacy Technician | Lab 12:1   |
|                     | Lab (PHA 225) 8:1  |
| Radiography         | Lab 10:1   |
|                     | Clinic (Technologist) 1:1  |
|                     | Clinic (CI) 10:1   |
| Respiratory Therapy | Clinic 6:1   |

## **Gainful Employment Data by Program**

The links to Gainful Employment documents listed below provide consumers with important information about the educational debt, earnings, and completion rates of students who attended this program.

### **Dental Assistant:**

Days: <https://pmi.edu/programconsumerinfo/022171/da/dental-assistant>

Evenings: <https://pmi.edu/programconsumerinfo/022171/da/evening/dental-assistant>

### **Medical Administrative Assistant:**

Days: <https://pmi.edu/programconsumerinfo/022171/maa/medical-administrative-assistant>

Evenings: <https://pmi.edu/programconsumerinfo/022171/maa/night/medical-administrative-assistant>

### **Medical Assistant:**

Days: <https://pmi.edu/programconsumerinfo/022171/ma/medical-assistant>

Evenings: <https://pmi.edu/programconsumerinfo/022171/ma/night/medical-assistant>

### **Pharmacy Technician:**

Days: <https://pmi.edu/programconsumerinfo/022171/rxt/pharmacy-technician>

Evenings: <https://pmi.edu/programconsumerinfo/022171/rxt/night/pharmacy-technician>

### **Phlebotomy Technician:**

Days: <https://pmi.edu/programconsumerinfo/022171/phl/phlebotomy-technician>

### **Veterinary Assistant:**

Days: <https://pmi.edu/programconsumerinfo/022171/va/veterinary-assistant>

Evenings: <https://pmi.edu/programconsumerinfo/022171/va/night/veterinary-assistant>

**Diagnostic Medical Sonography:** <https://pmi.edu/programconsumerinfo/022171/dms/diagnostic-medical-sonography>

**Occupational Therapy Assistant:** <https://pmi.edu/programconsumerinfo/022171/ota/occupational-therapy-assistant>

**Radiography:** <https://pmi.edu/programconsumerinfo/022171/rad/radiography>

**Veterinary Technician:** <https://pmi.edu/programconsumerinfo/022171/vt/veterinary-technician>

**A complete listing of Student Consumer Information, including disclosures, Gainful Employment data, Financial Aid information, Health and Safety reports and accreditation information, can be found online at: [www.pmi.edu/consumerinfo](http://www.pmi.edu/consumerinfo)**



Pima Medical Institute - El Paso Campus  
 Tuition Price List  
 Effective January 1, 2018

| Program                                | Total           | Tuition         | Reg. Fee | Textbooks*     | Supplies* | Uniform* | Extern Weeks | Total Credits/<br>Clock Hours | Total Weeks<br>(Day/Night) | Extern Credits/<br>Hours |
|--|-----------------|-----------------|----------|----------------|-----------|----------|--------------|-------------------------------|----------------------------|--------------------------|
| Dental Assistant (DEN)                 | <b>\$14,045</b> | \$13,089        | \$150    | <b>\$641</b>   |           | \$165    | 6            | 28/720                        | 30/34                      | 5/240                    |
| Diagnostic Medical Sonography (DMS)    | <b>\$32,101</b> | <b>\$29,958</b> | \$150    | <b>\$1,828</b> |           | \$165    | 30           | 86/2265                       | 90                         | 24/1080                  |
| Medical Administrative Assistant (MAA) | <b>\$10,830</b> | <b>\$9,618</b>  | \$150    | <b>\$897</b>   |           | \$165    | 6            | 29/720                        | 30/34                      | 5/240                    |
| Medical Assistant (MA)                 | <b>\$14,165</b> | <b>\$13,227</b> | \$150    | <b>\$623</b>   |           | \$165    | 5            | 34/800                        | 35/40                      | 4/200                    |
| Occupational Therapy Assistant (OTA)   | <b>\$35,417</b> | <b>\$33,245</b> | \$150    | <b>\$1,857</b> |           | \$165    | 18           | 70.5/1712                     | 80                         | 15.5/720                 |
| Pharmacy Technician (PHA)              | <b>\$14,081</b> | \$12,972        | \$150    | <b>\$794</b>   |           | \$165    | 6            | 35.5/840                      | 36/41                      | 5/240                    |
| Phlebotomy Technician (PHL)            | <b>\$4,494</b>  | \$3,952         | \$150    | <b>\$227</b>   |           | \$165    | 4            | 10/300                        | 11/13                      | 3.5/160                  |
| Radiography (RAD)                      | <b>\$38,999</b> | <b>\$36,540</b> | \$150    | <b>\$2,144</b> |           | \$165    | 64           | 87/2728                       | 96                         | 42/1968                  |
| Veterinary Assistant (VTA)             | <b>\$13,805</b> | \$12,824        | \$150    | <b>\$666</b>   |           | \$165    | 6            | 30/720                        | 30/34                      | 5/240                    |
| Veterinary Technician (VTT)            | <b>\$30,999</b> | <b>\$28,487</b> | \$150    | <b>\$2,197</b> |           | \$165    | 13           | 78.5/1775                     | 77/86                      | 10/465                   |

\*Includes Tax @ 8.25%

(Changes in Bold)

## 2018 Start Dates

Red - Indicates Start Date is a Holiday - Classes begin on Tuesday

### Certificate Programs

| DA (AM) - 30 Wks   | Start Date | Midpoint | Extern   | Grad Date |
|--------------------|------------|----------|----------|-----------|
| Mon - Fri          | 1/29/18    | 6/18/18  | 7/16/18  | 8/24/18   |
| 8:00 am - 12:00 pm | 3/12/18    | 7/30/18  | 8/27/18  | 10/5/18   |
| Sequence = 6 Wks   | 4/23/18    | 9/10/18  | 10/8/18  | 11/16/18  |
| Career Prep        | 6/4/18     | 10/22/18 | 11/19/18 | 1/11/19   |
| Sequence 1, 2 & 3  | 7/16/18    | 12/3/18  | 1/14/19  | 2/22/19   |
| Externship: 6 Wks  | 8/27/18    | 1/28/19  | 2/25/19  | 4/5/19    |
| Version: DA-D08-B  | 10/8/18    | 3/11/19  | 4/8/19   | 5/17/19   |
| Credits: 28        | 11/19/18   | 4/22/19  | 5/20/19  | 6/28/19   |
| Hours: 720         | 1/14/19    | 6/3/19   | 7/1/19   | 8/9/19    |

| MAA (AM) - 30 Wks  | Start Date | Midpoint | Extern   | Grad Date |
|--------------------|------------|----------|----------|-----------|
| Mon - Fri          | 1/29/18    | 6/18/18  | 7/16/18  | 8/24/18   |
| 8:00 am - 12:00 pm | 3/12/18    | 7/30/18  | 8/27/18  | 10/5/18   |
| Sequence = 6 Wks   | 4/23/18    | 9/10/18  | 10/8/18  | 11/16/18  |
| Career Prep        | 6/4/18     | 10/22/18 | 11/19/18 | 1/11/19   |
| Sequence 1, 2 & 3  | 7/16/18    | 12/3/18  | 1/14/19  | 2/22/19   |
| Externship: 6 Wks  | 8/27/18    | 1/28/19  | 2/25/19  | 4/5/19    |
| Version: MAA-D12   | 10/8/18    | 3/11/19  | 4/8/19   | 5/17/19   |
| Credits: 29        | 11/19/18   | 4/22/19  | 5/20/19  | 6/28/19   |
| Hours: 720         | 1/14/19    | 6/3/19   | 7/1/19   | 8/9/19    |

| MDA (AM) - 35 Wks    | Start Date | Midpoint | Extern   | Grad Date |
|----------------------|------------|----------|----------|-----------|
| Mon - Fri            | 1/29/18    | 7/30/18  | 8/27/18  | 9/28/18   |
| 8:00 am - 12:00 pm   | 3/12/18    | 9/10/18  | 10/8/18  | 11/9/18   |
| Sequence = 6 Wks     | 4/23/18    | 10/22/18 | 11/19/18 | 12/21/18  |
| Career Prep          | 6/4/18     | 12/3/18  | 1/14/19  | 2/15/19   |
| Sequence 1, 2, 3 & 4 | 7/16/18    | 1/28/19  | 2/25/19  | 3/29/19   |
| Externship: 5 Wks    | 8/27/18    | 3/11/19  | 4/8/19   | 5/10/19   |
| Version: MA-D09      | 10/8/18    | 4/22/19  | 5/20/19  | 6/21/19   |
| Credits: 34          | 11/19/18   | 6/3/19   | 7/1/19   | 8/2/19    |
| Hours: 800           | 1/14/19    | 7/15/19  | 8/12/19  | 9/13/19   |

| MDA (AFT) - 35 Wks   | Start Date | Midpoint | Extern   | Grad Date |
|----------------------|------------|----------|----------|-----------|
| Mon - Fri            | 3/6/17     | 9/4/17   | 10/2/17  | 11/3/17   |
| 1:00 pm - 5:00 pm    | 4/17/17    | 10/16/17 | 11/13/17 | 12/15/17  |
| Sequence = 6 Wks     | 5/29/17    | 11/27/17 | 1/8/18   | 2/9/18    |
| Career Prep          | 7/10/17    | 1/22/18  | 2/19/18  | 3/23/18   |
| Sequence 1, 2, 3 & 4 | 8/21/17    | 3/5/18   | 4/2/18   | 5/4/18    |
| Externship: 5 Wks    | 10/2/17    | 4/16/18  | 5/14/18  | 6/15/18   |
| Version: MA-D09      | 11/13/17   | 5/28/18  | 6/25/18  | 7/27/18   |
| Credits: 34          | 1/8/18     | 7/9/18   | 8/6/18   | 9/7/18    |
| Hours: 800           | 2/19/18    | 8/20/18  | 9/17/18  | 10/19/18  |

| MDA (EVE) - 40 Wks   | Start Date | Midpoint | Extern   | Grad Date |
|----------------------|------------|----------|----------|-----------|
| Mon - Thur           | 2/12/18    | 9/10/18  | 10/15/18 | 11/16/18  |
| 5:30 pm - 9:50 pm    | 4/2/18     | 10/29/18 | 12/3/18  | 1/18/19   |
| Sequence = 7 Wks     | 5/21/18    | 12/17/18 | 2/4/19   | 3/8/19    |
| Career Prep          | 7/9/18     | 2/18/19  | 3/25/19  | 4/26/19   |
| Sequence 1, 2, 3 & 4 | 8/27/18    | 4/8/19   | 5/13/19  | 6/14/19   |
| Externship: 5 Wks    | 10/15/18   | 5/27/19  | 7/1/19   | 8/2/19    |
| Version: MA-N09      | 12/3/18    | 7/15/19  | 8/19/19  | 9/20/19   |
| Credits: 34          | 2/4/19     | 9/2/19   | 10/7/19  | 11/8/19   |
| Hours: 800           | 3/25/19    | 10/21/19 | 11/25/19 | 1/10/20   |

| PHA (AM) - 36 Wks    | Start Date | Midpoint | Extern   | Grad Date |
|----------------------|------------|----------|----------|-----------|
| Mon - Fri            | 1/29/18    | 7/30/18  | 8/27/18  | 10/5/18   |
| 8:00 am - 12:00 pm   | 3/12/18    | 9/10/18  | 10/8/18  | 11/16/18  |
| Sequence = 6 Wks     | 4/23/18    | 10/22/18 | 11/19/18 | 1/11/19   |
| Career Prep          | 6/4/18     | 12/3/18  | 1/14/19  | 2/22/19   |
| Sequence 1, 2, 3 & 4 | 7/16/18    | 1/28/19  | 2/25/19  | 4/5/19    |
| Externship: 6 Wks    | 8/27/18    | 3/11/19  | 4/8/19   | 5/17/19   |
| Version: RXTD17      | 10/8/18    | 4/22/19  | 5/20/19  | 6/28/19   |
| Credits: 35.5        | 11/19/18   | 6/3/19   | 7/1/19   | 8/9/19    |
| Hours: 840           | 1/14/19    | 7/15/19  | 8/12/19  | 9/20/19   |

| VTA (AM) - 30 Wks  | Start Date | Midpoint | Extern   | Grad Date |
|--------------------|------------|----------|----------|-----------|
| Mon - Fri          | 1/29/18    | 6/18/18  | 7/16/18  | 8/24/18   |
| 8:00 am - 12:00 pm | 3/12/18    | 7/30/18  | 8/27/18  | 10/5/18   |
| Sequence = 6 Wks   | 4/23/18    | 9/10/18  | 10/8/18  | 11/16/18  |
| Career Prep        | 6/4/18     | 10/22/18 | 11/19/18 | 1/11/19   |
| Sequence 1, 2 & 3  | 7/16/18    | 12/3/18  | 1/14/19  | 2/22/19   |
| Externship: 6 Wks  | 8/27/18    | 1/28/19  | 2/25/19  | 4/5/19    |
| Version: VTAD08    | 10/8/18    | 3/11/19  | 4/8/19   | 5/17/19   |
| Credits: 30        | 11/19/18   | 4/22/19  | 5/20/19  | 6/28/19   |
| Hours: 720         | 1/14/19    | 6/3/19   | 7/1/19   | 8/9/19    |

| VTA (AFT) - 30 Wks | Start Date | Midpoint | Extern   | Grad Date |
|--------------------|------------|----------|----------|-----------|
| Mon - Fri          | 1/8/18     | 5/28/18  | 6/25/18  | 8/3/18    |
| 1:00 pm - 5:00 pm  | 2/19/18    | 7/9/18   | 8/6/18   | 9/14/18   |
| Sequence = 6 Wks   | 4/2/18     | 8/20/18  | 9/17/18  | 10/26/18  |
| Career Prep        | 5/14/18    | 10/1/18  | 10/29/18 | 12/7/18   |
| Sequence 1, 2 & 3  | 6/25/18    | 11/12/18 | 12/10/18 | 2/1/19    |
| Externship: 6 Wks  | 8/6/18     | 1/7/19   | 2/4/19   | 3/15/19   |
| Version: VTAD08    | 9/17/18    | 2/18/19  | 3/18/19  | 4/26/19   |
| Credits: 30        | 10/29/18   | 4/1/19   | 4/29/19  | 6/7/19    |
| Hours: 720         | 12/10/18   | 5/13/19  | 6/10/19  | 7/19/19   |

| VTA (EVE) - 34 Wks | Start Date | Midpoint | Extern   | Grad Date |
|--------------------|------------|----------|----------|-----------|
| Mon - Thur         | 2/12/18    | 7/23/18  | 8/27/18  | 10/5/18   |
| 5:30 pm - 9:50 pm  | 4/2/18     | 9/10/18  | 10/15/18 | 11/23/18  |
| Sequence = 7 Wks   | 5/21/18    | 10/29/18 | 12/3/18  | 1/25/19   |
| Career Prep        | 7/9/18     | 12/17/18 | 2/4/19   | 3/15/19   |
| Sequence 1, 2 & 3  | 8/27/18    | 2/18/19  | 3/25/19  | 5/3/19    |
| Externship: 6 Wks  | 10/15/18   | 4/8/19   | 5/13/19  | 6/21/19   |
| Version: VTAN08    | 12/3/18    | 5/27/19  | 7/1/19   | 8/9/19    |
| Credits: 30        | 2/4/19     | 7/15/19  | 8/19/19  | 9/27/19   |
| Hours: 720         | 3/25/19    | 9/2/19   | 10/7/19  | 11/15/19  |

#### Degree Programs

| DMS (AM) - 90 Wks   | Sem Start | Stipend  | Sem End  | Grad Date |
|---------------------|-----------|----------|----------|-----------|
| Mon - Fri           | 12/10/18  | 3/4/19   | 4/5/19   |           |
| 8:00 am - 12:00 pm  | 4/15/19   | 6/24/19  | 7/26/19  |           |
| 6 Semesters         | 8/5/19    | 10/14/19 | 11/15/19 |           |
| Semester = 15 Wks   | 11/25/19  | 2/17/20  | 3/20/20  |           |
| Version: DMS15      | 3/30/20   | 6/8/20   | 7/10/20  |           |
| 86 Crds / 2,265 Hrs | 7/20/20   | 9/28/20  | 10/30/20 | 10/30/20  |



| DMS (AFT) - 90 Wks  | Sem Start | Stipend  | Sem End  | Grad Date |
|---------------------|-----------|----------|----------|-----------|
| Mon - Fri           | 4/30/18   | 7/9/18   | 8/10/18  |           |
| 1:00 pm - 5:00 pm   | 8/20/18   | 10/29/18 | 11/30/18 |           |
| 6 Semesters         | 12/10/18  | 3/4/19   | 4/5/19   |           |
| Semester = 15 Wks   | 4/15/19   | 6/24/19  | 7/26/19  |           |
| Version: DMS15      | 8/5/19    | 10/14/19 | 11/15/19 |           |
| 86 Crds / 2,265 Hrs | 11/25/19  | 2/17/20  | 3/20/20  | 3/20/20   |

| OTA (AM) - 80 Wks     | Sem Start | Stipend | Sem End  | Grad Date |
|-----------------------|-----------|---------|----------|-----------|
| Mon - Thur            | 3/26/18   | 6/4/18  | 7/13/18  |           |
| 8:00 am - 12:00 pm    | 7/23/18   | 10/1/18 | 11/9/18  |           |
| 5 Semesters           | 11/19/18  | 2/11/19 | 3/22/19  |           |
| Semester = 16 Wks     | 4/1/19    | 6/10/19 | 7/19/19  |           |
| Version: OTA-10       | 7/29/19   | 10/7/19 | 11/15/19 | 11/15/19  |
| 70.5 Crds / 1,712 Hrs |           |         |          |           |

| OTA (AFT) - 80 Wks    | Sem Start | Stipend | Sem End  | Grad Date |
|-----------------------|-----------|---------|----------|-----------|
| Mon - Thur            | 11/19/18  | 2/11/19 | 3/22/19  |           |
| 1:00 pm - 5:00 pm     | 4/1/19    | 6/10/19 | 7/19/19  |           |
| 5 Semesters           | 7/29/19   | 10/7/19 | 11/15/19 |           |
| Semester = 16 Wks     | 11/25/19  | 2/17/20 | 3/27/20  |           |
| Version: OTA-10       | 4/6/20    | 6/15/20 | 7/24/20  | 7/24/20   |
| 70.5 Crds / 1,712 Hrs |           |         |          |           |

| RAD (AFT) - 96 Wks  | Sem Start | Stipend | Sem End  | Grad Date |
|---------------------|-----------|---------|----------|-----------|
| Mon - Fri           | 6/25/18   | 9/3/18  | 10/12/18 |           |
| 1:00 pm - 5:00 pm   | 10/22/18  | 1/14/19 | 2/22/19  |           |
| 6 Semesters         | 3/4/19    | 5/13/19 | 6/21/19  |           |
| Semester = 16 Wks   | 7/1/19    | 9/9/19  | 10/18/19 |           |
| Version: RAD15      | 10/28/19  | 1/20/20 | 2/28/20  |           |
| 87 Crds / 2,728 Hrs | 3/9/20    | 5/18/20 | 6/26/20  | 6/26/20   |

| VTT (AM) - 47 Wks     | Start Date | On Ground | Extern   | Grad Date |
|-----------------------|------------|-----------|----------|-----------|
| Mon - Fri             | 1/29/18    | 3/26/18   | 11/5/18  | 12/21/18  |
| 8:00 am - 12:00 pm    | 3/26/18    | 5/21/18   | 1/14/19  | 3/1/19    |
| 5 Sequences           | 5/21/18    | 7/16/18   | 3/11/19  | 4/26/19   |
| Sequence: 8 Wks       | 7/16/18    | 9/10/18   | 5/6/19   | 6/21/19   |
| Extern/Seminar: 7 Wks | 9/10/18    | 11/5/18   | 7/1/19   | 8/16/19   |
| Version: VTTD13       | 11/5/18    | 1/14/19   | 9/9/19   | 10/25/19  |
| Credits: 78.5         | 1/14/19    | 3/11/19   | 10/21/19 | 12/6/19   |
| Hours: 1,055          | 3/11/19    | 5/6/19    | 12/16/19 | 2/14/20   |

| VTT (AFT) - 47 Wks    | Start Date | On Ground | Extern   | Grad Date |
|-----------------------|------------|-----------|----------|-----------|
| Mon - Fri             | 2/26/18    | 4/23/18   | 12/3/18  | 2/1/19    |
| 1:00 pm - 5:00 pm     | 4/23/18    | 6/18/18   | 2/11/19  | 3/29/19   |
| 5 Sequences           | 6/18/18    | 8/13/18   | 4/8/19   | 5/24/19   |
| Sequence: 8 Wks       | 8/13/18    | 10/8/18   | 6/3/19   | 7/19/19   |
| Extern/Seminar: 7 Wks | 10/8/18    | 12/3/18   | 7/29/19  | 9/13/19   |
| Version: VTTD13       | 12/3/18    | 2/11/19   | 9/23/19  | 11/8/19   |
| Credits: 78.5         | 2/11/19    | 4/8/19    | 11/18/19 | 1/17/20   |
| Hours: 1,055          | 4/8/19     | 6/3/19    | 1/27/20  | 3/13/20   |

# MEDICAL LABORATORY TECHNICIAN

## OBJECTIVE

To develop in students the personal traits and professional skills required to perform as competent entry-level medical laboratory technicians. Students learn and practice the fundamentals of testing procedures on various body fluids, including urine, synovial fluid, cerebrospinal fluid, and blood. They also learn to differentiate between normal and abnormal test results. Students learn and apply important safety concepts and practices, including OSHA standards, universal precautions, and personal protective equipment.

-Catalog Addendum for 2018-2019 catalog published April 2018 (04/15/18)

## ADMISSION REQUIREMENTS

Please reference admission requirements on page 130.

### Semester I (15 Weeks)

| Course #                | Course                                   | Theory     | Lab       | Extern | Credits     |
|-------------------------|--|------------|-----------|--------|-------------|
| PSY 107                 | Psychology of Success                    | 40         |           |        | 2.5         |
| MAP 110                 | Medical Terminology                      | 40         |           |        | 2.5         |
| ENG 121                 | English Communications                   | 40         |           |        | 2.5         |
| MLT 140                 | General Chemistry                        | 40         |           |        | 2.5         |
| MLT 100                 | Introduction to Medical Lab              | 20         | 20        |        | 2.0         |
| CIS 110                 | Fundamental Computer Skills              | 20         | 20        |        | 2.0         |
| MAP 123                 | Anatomy & Physiology: Circulation & Life | 40         |           |        | 2.5         |
| <b>Semester I Total</b> |  | <b>240</b> | <b>40</b> |        | <b>16.5</b> |

### Semester II (15 Weeks)

| Course #                 | Course                                     | Theory     | Lab       | Extern | Credits     |
|--------------------------|--|------------|-----------|--------|-------------|
| MAP 122                  | Anatomy & Physiology: Control & Metabolism | 40         |           |        | 2.5         |
| MLT 105                  | Instrumentation and Quality Control        | 20         | 20        |        | 2.0         |
| MLT 115                  | Molecular Biology                          | 40         |           |        | 2.5         |
| MLT 110                  | Math for Medical Specialities              | 40         |           |        | 2.5         |
| MLT 160                  | Microbiology                               | 20         | 60        |        | 3.0         |
| PSY 134                  | General Psychology                         | 40         |           |        | 2.5         |
| <b>Semester II Total</b> |  | <b>200</b> | <b>80</b> |        | <b>15.0</b> |

### Semester III (15 Weeks)

| Course #                  | Course                             | Theory     | Lab        | Extern | Credits     |
|---------------------------|------------------------------------|------------|------------|--------|-------------|
| MLT 120                   | Phlebotomy and Specimen Collection | 20         | 20         |        | 2.0         |
| MLT 145                   | Clinical Chemistry                 | 20         | 20         |        | 2.0         |
| MLT 102                   | Human Pathology                    | 40         |            |        | 2.5         |
| MLT 150                   | Pathogenic and Parasitic Organisms | 20         | 20         |        | 2.0         |
| MLT 130                   | Hematology                         | 20         | 60         |        | 3.0         |
| MLT 155                   | Immunology and Serology            | 20         | 20         |        | 2.0         |
| <b>Semester III Total</b> |                                    | <b>140</b> | <b>140</b> |        | <b>13.5</b> |

### Semester IV (15 Weeks)

| Course #                 | Course                            | Theory     | Lab        | Extern | Credits     |
|--------------------------|-----------------------------------|------------|------------|--------|-------------|
| MLT 170                  | Immunohematology and Bloodbanking | 20         | 60         |        | 3.0         |
| MLT 125                  | Urinalysis and Body Fluids        | 20         | 20         |        | 2.0         |
| MLT 135                  | Hemostasis and Specialty Testing  | 20         | 20         |        | 2.0         |
| MAP 185                  | Medical Law and Ethics            | 40         |            |        | 2.5         |
| CMS 111                  | Career Marketing Strategies       | 40         |            |        | 2.5         |
| <b>Semester IV Total</b> |                                   | <b>140</b> | <b>100</b> |        | <b>12.0</b> |

### Semester V (15 Weeks)

| Course #                | Course                              | Theory     | Lab        | Extern     | Credits     |
|-------------------------|-------------------------------------|------------|------------|------------|-------------|
| MLT 200                 | Medical Laboratory Review           | 20         | 60         |            | 3.0         |
| EMG 101                 | CPR & Basic First Aid Certification | 10         | 20         |            | 1.0         |
| MLT 210                 | Externship                          |            |            | 400        | 8.5         |
| <b>Semester V Total</b> |                                     | <b>30</b>  | <b>80</b>  | <b>400</b> | <b>12.5</b> |
| <b>PROGRAM TOTALS</b>   |                                     | <b>750</b> | <b>440</b> | <b>400</b> | <b>69.5</b> |



## LOCATIONS



Colorado Springs

## PROGRAM INFORMATION

### DELIVERY METHOD: *On-ground*

Program length: 75 weeks (15 weeks per semester). The total number of program hours is 1,590. Courses within a semester may not be taught concurrently, but all courses are taught within the 15 weeks. Graduates of this program receive an Occupational Associate degree and are eligible to apply to take the American Society for Clinical Pathology certification examination.

# COURSE DESCRIPTIONS

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## **PSY 107 Psychology of Success**

Students will learn to balance home, work, and college using human relations skills, enabling them to contribute more to organizational productivity, and in general, have more successful careers.

*Prerequisites: None*

## **MAP 110 Medical Terminology**

The student who successfully completes this course will be able to understand and build an extensive medical vocabulary including medical abbreviations. The student should also be able to use the word-building system to further define new medical terms as necessary.

*Prerequisites: None*

## **ENG 121 English Communications**

Fundamentals of communication theory and practice are reviewed and practiced. Topics include the study of vocabulary, spelling, mechanics, parts of speech, and sentence analysis.

*Prerequisites: None*

## **MLT 140 General Chemistry**

This course is designed to give the student fundamental basic knowledge of chemistry in preparation for utilization in the clinical laboratory. This course will cover basic principles, vocabulary, molecular structures, methods of measurement, quantum theory, acids, bases, and salts.

*Prerequisites: None*

## **MLT 100 Introduction to the Medical Lab**

This course is designed to introduce students to OSHA standards, personal protective equipment, the care and use of laboratory equipment including microscopes and proper techniques for handling of glassware. In addition, students will learn basic skills in hematology, urinalysis, microbiology, chemistry, and parasitology. Quality control documentation requirements and techniques used in lab reporting will also be presented.

*Corequisites: MAP 110 Medical Terminology*

## **CIS 110 Fundamental Computer Skills**

Students learn basic computer skills for the business and medical office. Hands-on experience with PC applications and typing technique will be the focus.

*Prerequisites: None*

## **MAP 123 Anatomy & Physiology: Circulation & Life**

The student who successfully completes this course will be able to identify the first systems of the body and their major functions, describe the relationship of anatomy and physiology to the medical terminology used in transcribing medical records, and identify gross anatomical features on selected diagrams of the body systems.

*Corequisites: MAP 110 Medical Terminology*

## **MAP 122 Anatomy & Physiology: Control & Metabolism**

The student who successfully completes this course should be able to identify the remaining systems of the body and their major functions, describe the relationships of anatomy and physiology to the medical terminology used in transcribing medical records, and identify gross anatomical features on selected diagrams of the body systems.

*Prerequisites: MAP 110 Medical Terminology*

## **MLT 105 Instrumentation & Quality Control**

Students will be introduced to laboratory instrumentation including the spectrophotometer, perform linearity studies, and incorporate all aspects of quality control required in the laboratory.

*Corequisites: MLT 100 Introduction to the Medical Lab; MLT 110 Math for Medical Specialties*

## **MLT 115 Molecular Biology**

Students who are enrolled in this course will learn the fundamentals of molecular biology. Students will have an understanding of cellular biology, genetics, metabolism, mitosis, and meiosis and how they relate to medical laboratory testing.

*Prerequisites: None*

## **MLT 110 Math for Medical Specialties**

Upon completion of this course, students will have an understanding of mathematical concepts used in general chemistry, clinical chemistry, hematology, and basic physics needed for proper calculation in a medical setting.

*Prerequisites: None*

## **MLT 160 Microbiology**

Upon completion of this course students will have an understanding of the theories and principles applicable to clinical microbiology. The student will recognize and learn the clinical significance of unusual pathogens. Students will be exposed to techniques for cultivation of anaerobes and identification schemes for less common pathogens. Students will become familiar with virology terminology.

*Prerequisites: MLT 100 Introduction to the Medical Lab*

*Corequisites: MLT 115 Molecular Biology*

# COURSE DESCRIPTIONS

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## **PSY 134 General Psychology**

An introduction to psychological issues and disorders present in public interaction, including psychosocial factors in physical disorders. Basic relationship issues emphasizing boundaries, roles, limits, and methods are covered.

*Prerequisites: None*

## **MLT 120 Phlebotomy & Specimen Collection**

Students who successfully complete this course will have the ability to perform proper collection, handling, and processing of blood using various collection methods. In addition, they will have an understanding of other specimen collection techniques, proper labeling, and required documentation in a medical laboratory.

*Prerequisites: MLT 100 Introduction to Medical Lab*

## **MLT 145 Clinical Chemistry**

Upon completion of this course students will have an understanding of the theory and clinical interpretation of carbohydrates, lipids, and proteins needed for clinical laboratory testing. The student will have the ability to perform both manual and automated laboratory determinations and spectrophotometer methods. In addition, students will have an understanding of the standard operating procedures as well as quality assurance standards for all chemistry tests performed. Theory and clinical interpretation of enzymes, electrolytes, and toxic substances will be presented. The student will perform both manual and automated laboratory determinations corresponding to theoretical study.

*Prerequisites: MLT 100 Introduction to Medical Lab; MLT 105 Instrumentation and Quality Control; MLT 140 General Chemistry*

## **MLT 102 Human Pathology**

Upon successful completion of this course, the student will have an understanding of the most common disease processes involved in all systems of anatomy and physiology.

*Prerequisites: MAP 110 Medical Terminology*

## **MLT 150 Pathogenic and Parasitic Organisms**

Students will learn about parasites and clinically important protozoans, nematodes, trematodes, cestodes, and the following characteristics: geographical distribution, life cycle, pathology, morphology, and clinical diagnosis. This course provides practical procedures for the preparation, examination, and identification of common pathogenic parasites. Mycology and their reactions to the body and environment will be studied. The student will learn methods of collecting specimens, preparation of media, and microscopic examinations for the identification of common saprophytic and pathogenic fungi. Additional pathogenic microorganisms will be presented.

*Prerequisites: MLT 160 Microbiology*

## **MLT 130 Hematology**

This course equips the student with the practices and principles explored in the hematology laboratory. Procedures include complete blood counts with white blood cell counts, red blood cell counts, hemoglobin determinations, hematocrit values, blood smear differential, red cell indices, sedimentation rates, and reticulocyte counts and gene mutation.

*Prerequisites: MLT 105 Instrumentation and Quality Control; MLT 115 Molecular Biology*

*Corequisites: MLT 120 Phlebotomy and Specimen Collection*

## **MLT 155 Immunology & Serology**

This course will introduce the students to immunology, the immune response, and antigen/antibody testing, which will include various serology tests used in the laboratory. Students will become familiar with virology terminology and understand the classifications of various viruses and the clinical manifestations of viruses.

*Prerequisites: MLT 105 Instrumentation and Quality Control*

## **MLT 170 Immunohematology & Bloodbanking**

This course is designed to give the student a basic understanding of the immune system and bloodbanking and their relationship to clinical testing. The student will have a basic knowledge of antigen-antibody testing methods and be able to perform the necessary pipetting skills for these tests. In addition, the student will understand and be capable of performing ABO grouping, RH typing, compatibility testing, antibody identification, and component therapy. Donor screening, blood processing, and appropriate quality assurance procedures are also treated.

*Prerequisites: MLT 155 Immunology & Serology; MLT 130 Hematology*

## **MLT 125 Urinalysis & Body Fluids**

During this course students will learn the physical, chemical, and microscopic examination of urine and its importance to a physician in the diagnosis of disease. Students will also learn proper processing and handling of other bodily fluids for laboratory testing.

*Prerequisites: MLT 100 Introduction to the Medical Lab; MLT 115 Molecular Biology*

## **MLT 135 Hemostasis & Specialty Testing**

This course will prepare students with knowledge of procedures in coagulation and handling of samples. Studies include clotting mechanisms, platelet structure and function, and the maintenance of vascular integrity including both intrinsic and extrinsic systems. All areas of study will be substantiated with lab procedures and methods used to monitor these conditions. In addition, the students will examine abnormal blood smears to include leukemias and myeloproliferative disorders.

*Prerequisites: MLT 130 Hematology*

# COURSE DESCRIPTIONS

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## **MAP 185 Medical Law & Ethics**

Students will be able to state major legal concerns of being a member of the health profession, formulate self-awareness of ethics as it applies to the medical field, identify risk management issues, and state the importance of confidentiality.

*Prerequisites: MAP 110 Medical Terminology*

## **CMS 111 Career Marketing Strategies**

Students create a portfolio including résumés, references, cover letters, and thank-you letters. Mock interviews will be conducted. Students learn how to evaluate job offers and skills.

*Prerequisites: None*

## **MLT 200 Medical Laboratory Review**

Upon completion of this course the student will be prepared for the application process and testing procedures needed for completion of their certification exam. This course will provide review of all laboratory materials, competencies, and guidelines necessary for completion of the exam.

*Prerequisites: MAP 110 Medical Terminology*

## **EMG 101 Basic CPR & First Aid Certification**

This course will be a combination of lecture, simulation, demonstration, and student participation. Lab time will allow hands-on experiences, small group discussions, simulations, and return demonstration of newly acquired skills.

*Prerequisites: None*

## **MLT 210 Externship**

An externship consists of 400-hour field experience in an appropriate location. It provides an opportunity for students to practice the skills they have learned under direct supervision in an actual work environment.

*Prerequisites: Semesters I, II, III, IV, and V courses*