



MERCER
COUNTY COMMUNITY COLLEGE

COURSE OUTLINE

Course Number
FUN 251

Course Title
Embalming Lab

Credits
3

Hours:
Lecture/Lab/Other
0/3/0

Co- or Pre-requisite
FUN 247 or 249
Students must be enrolled in the FUN program
and must be registered with the respective State Board of
Mortuary Science/Funeral Directors

Implementation
Semester & Year
Fall 2023

Catalog description:

Emphasis is on developing practical embalming skills. Course combines work experience in a funeral home and the MCCC embalming facility with discussion of applications. Students must be registered with the appropriate state licensing agency and are expected to work 16-20 hours / week in the funeral home. (College personnel supervise the embalming on campus and evaluate student progress in the workplace) Discussion topics include OSHA regulations, basic embalming procedures, types of embalming products, cavity treatment, infant embalming and special cases.

General Education Category:
Not GenEd

Course coordinator: Michael T. Daley DaleyM@MCCC.EDU 609-617-1029

Required texts & Other materials:

TITLE: **EMBALMING: HISTORY, THEORY AND PRACTICE**
AUTHOR: Sharon Gee-Mascarello
PUBLISHER: MCGRAW HILL
EDITION: 6th: (2022) ISBN 9781260010077

Course Student Learning Outcomes (SLO):

Student Learning Objectives:

Under the supervision of the lab instructors, the student will be able to:

- 1) Analyze the standards of the Occupational Safety and Health Administration with respect to the embalming lab, funeral home and its employees. (ILG: 1 & 11; PLO: 2.1.3, 2.1.4, & 2.1.7)
- 2) Exhibit the ability to work on a team and assume roles of initiator and facilitator when appropriate. (ILG: 1, & 9; PLO: 2.1.9 & 2.1.10)

- 3) Demonstrate the basic steps involved in the embalming process for the autopsied, un-autopsied, donor and infant cases. (ILG: 3 & 4; PLO: 2.1.4, 2.1.5, & 2.1.7).
- 4) Exhibit the use of case analysis when determining fluid selection and embalming procedures. (ILG: 3, 4, & 11: PLO: 2.1.2, 2.1.4, & 2.1.5).
- 5) Outline the anatomical guides and limits and linear guides for the various vessels raised in the lab. (ILG: 1, 3, & 11: PLO: 2.1.4, & 2.1.5).
- 6) Demonstrate how the embalming machine pressures and rate of flow are achieved and their significance. (ILG: 2, 3, & 4: PLO: 2.1.5).
- 7) Demonstrate various sutures and their appropriate applications. (ILG: 4 & 11: PLO 2.1.5).
- 8) Analyze and perform restorative and auxiliary treatments to enhance the embalming process. (ILG: 2, 3, 4, & 11: PLO: 2.1.5).
- 9) Compare and contrast medical devices with respect to their purpose, appropriate removal and influence on embalming and restorative art. (ILG: 4 & 11: PLO: 2.1.4, 2.1.5 & 2.1.7)
- 10) Differentiate embalming instruments with respect to name and appropriate usage. (ILG: 3 & 4; PLO: 2.1.4, 2.1.5 & 2.1.7).
- 11) Evaluate dressing and casketing procedures for men, women and infants. (ILG: 11, PLO: 2.1.4, 2.1.5 & 2.1.7)

Course-specific Institutional Learning Goals (ILG):

Institutional Learning Goal 1. Written and Oral Communication in English. Students will communicate effectively in both speech and writing.

Institutional Learning Goal 2. Mathematics. Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.

Institutional Learning Goal 3. Science. Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.

Institutional Learning Goal 4. Technology. Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.

Institutional Learning Goal 9. Ethical Reasoning and Action. Students will understand ethical frameworks, issues, and situations.

Institutional Learning Goal 11. Critical Thinking: Students will use critical thinking skills understand, analyze, or apply information or solve problems.

Program Learning Outcomes for Funeral Service AAS (PLO)

2.1 The central objective of an ABFSE-accredited program must be to educate students in every phase of funeral service so that program graduates are prepared for entry-level employment in funeral service. In support of this objective, a program must adopt at least the following Learning Outcomes:

- 2.1.1 Explain the importance of funeral service professionals in developing relationships with the families and communities they serve.
- 2.1.2 Identify standards of ethical conduct in funeral service practice.
- 2.1.3 Interpret how federal, state, and local laws apply to funeral service in order to ensure compliance.
- 2.1.4 Apply principles of public health and safety in the handling and preparation of human remains.
- 2.1.5 Demonstrate technical skills in embalming and restorative art that are necessary for the preparation and handling of human remains.
- 2.1.6 Demonstrate skills required for conducting arrangement conferences, visitations, services, and ceremonies.
- 2.1.7 Describe the requirements and procedures for burial, cremation, and other accepted forms of final disposition of human remains.
- 2.1.8 Describe methods to address the grief-related needs of the bereaved
- 2.1.9 Explain management skills associated with operating a funeral establishment.
- 2.1.10 Demonstrate verbal and written communication skills and research skills needed for funeral service practice.

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Units of study in detail:

Unit #1 - Topics: (SLO: 1, & 2)
Orientation
Monthly and Embalming Reports
Occupational Safety and Health Administration
- Bloodborne Pathogens
- Hazard Communication
- Formaldehyde Rule
- General Workplace Safety
Lab Rules
Team Concept
Material Safety Data Sheets
Personal Protective Equipment

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Complete the monthly and embalming reports that are required for the course.
2. Synthesize the four standards of OSHA for funeral service with appropriate measures of compliance.
3. Appraise the lab rules and articulate their personal responsibilities for compliance.
4. Exhibit the "team concept" through their actions and attitude on the embalming team.
5. Locate and utilize the material safety data sheets in the lab.
6. Demonstrate the appropriate personal protective equipment for embalming as well as restorative procedures.

Unit #2 - Topics: (SLO: 2, 3, 4, 5, & 6)
Embalming Machine
Case Analysis
Vessel Selection
Chemical Selection
Embalming Steps

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Demonstrate setting specific potential, actual and differential pressures on an embalming machine as well as rate of flow.
2. Critique the significance of the potential, actual and differential pressures as well as the rate of flow.

3. Evaluate the importance of a thorough case analysis and demonstrate its use with an embalming case.
4. Demonstrate appropriate vessel and chemical selection based on a thorough case analysis.
5. Formulate the steps required in the embalming process and demonstrate them with embalming lab cases.

Unit #3 - Topics: (SLO: 1, 2, 3, & 5)
Anatomical Guides and Limits and Linear Guides
Raise Arteries and Veins

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Demonstrate on a case the anatomical guides and limits and linear guides for the following arteries: common carotid, facial, femoral, axillary, brachial, radial, ulnar, popliteal, anterior and posterior tibial and dorsalis pedis.
2. Demonstrate on a case the anatomical guides and limits and linear guides for the following veins: internal jugular, femoral, axillary, basilic, venae comitantes and popliteal.
3. Raise the following arteries: common carotid, facial, femoral, axillary, brachial, radial, ulnar, popliteal and dorsalis pedis.
4. Raise the following veins: internal jugular, femoral, axillary, basilica, venae comitantes and popliteal.

Unit #4 - Topics: (SLO: 3, & 9)
Medical Devices
Oxygen Delivery Methods
IV Fluid Delivery Methods
Monitoring Devices
Feeding Tubes
Bladder and Bowel Medical Devices
Chest Tubes
Dialysis Equipment
Defibrillators and Pacemakers
Mortuary Care

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Critique the purpose of nasal cannulas, oxygen masks and endotracheal tubes and demonstrate their appropriate removal.
2. Synthesize the appearance of nasal cannulas, oxygen masks and endotracheal tubes with their influence on embalming and restorative art treatments.
3. Evaluate the purpose of IV "butterflies", IV catheters and chemotherapy "ports" and demonstrate their appropriate removal.

4. Correlate the appearance of IV fluid delivery methods with their influence on embalming and restorative art treatments.
5. Analyze the various medical devices used to monitor the heart, chemical and gaseous levels and brain activity with respect to their appropriate removal and influence on embalming and restorative art treatments.
6. Compare and contrast feeding tubes and chest tubes with respect to their purpose, removal and embalming and restorative art implications.
7. Appraise the purpose and appropriate removal of urinary catheters, stoma bags and fecal bags and their influence on embalming and restorative art treatments.
8. Compare and contrast hemodialysis and peritoneal dialysis methods and the appropriate embalming considerations.
9. Critique procedures necessary for the safe removal of defibrillators and pacemakers.
10. Compare and contrast the various mortuary care products available to institutions and the implications their use may have for embalming and restorative art procedures.

Unit #5 – Topics: (SLO: 3, 4, & 7)
Sutures

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Demonstrate the baseball, worm, single and double intradermal, whip, purse-string and N sutures. (Course Competencies 7; Core Skills B & F)
2. Correlate various sutures with their appropriate applications. (Course Competencies 7; Gen. Ed. Goals 1 & 3; Core Skills A & B)

Unit #6 - Topics: (SLO: 2, 3, 4, 5, & 7)
Aspiration
Hypoinjection
Tissue Building

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Demonstrate the “fanning” and “layering” technique for aspiration.
2. Critique trocar guides and demonstrate their appropriate use.
3. Evaluate and demonstrate the appropriate applications for hypoinjection.
4. Formulate tissue building techniques with their appropriate applications.
5. Demonstrate the appropriate points of injection, instruments and techniques when tissue building.

Unit #7 – Topics: (SLO: 3 & 10)
Embalming Instruments

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Correlate 40 embalming instruments with their appropriate name and usage.
2. Demonstrate appropriate technique and application for the embalming instruments that are used on the cases in the lab.

Unit #8 – Topics: (SLO: 2, 3, 4, 7, & 8).
Restorative Waxes
Cosmetics

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attend the lab and participated in discussion, the student will be able to:

1. Evaluate the various restorative waxes available with their appropriate applications.
2. Demonstrate using restorative waxes with appropriate technique, instruments and applications.
3. Synthesize the various mortuary cosmetics with their purpose and appropriate applications.
4. Demonstrate appropriate selection, technique and application of mortuary cosmetics on normal tissue as well as discolorations.

Unit #9 – Topics: (SLO: 2, 3, 4, 10, & 11).
Dressing
Casketing
Cremation Containers

Preparation:

1. Attend the lab and participate in discussion.

Objectives:

Having attended the lab and participated in discussion, the student will be able to:

1. Evaluate dressing and casketing procedures for men, women and infants.
2. Demonstrate techniques for dressing men, women and infants with attention to cultural, professional and ethical standards.
3. Prepare cremation containers and cases for the crematory.

Assessment of student learning:

Student learning will be assessed using examinations, research papers, group presentations and case studies. Multiple-choice, matching, case studies, short essays, and fill-in-the-blank questions will be given. The final examination will be inclusive. Case studies will be completed in groups as well as

individually on tests. Each student will prepare a research paper. Students will also work in lab teams and present a report on their case to the other students.

Midterm Examination will cover Units #1 - #5

Final Examination will cover Units #1 - #9

The students will prepare a research paper on the types of gloves that are available to the embalmer. The paper will include their glove preference and the reasons for their decision. At a minimum they will investigate rubber, vinyl, latex, nitrile and tactylon gloves. A discussion of double-gloving and use of glove liners must also be included in their paper.

The class will be divided into lab teams and each team will have a designated captain. It will be the captains responsibility to coordinate lab activities with the lab instructors. Lab teams assigned to embalm are expected to work until the task is complete. Lab teams will present a report on their embalming experience to the other students, and this will include a question- and-answer session.

When there is no embalming for a given week, students will participate in designated demonstrations, discussions or videos in the lab or classroom as determined by the instructors.

Each student must complete 224 hours of work in a funeral home, a minimum of 7 embalmings and an embalming observation.

The final grade will be determined as follows:

Midterm Exam:	30%
Final Exam:	35%
Attendance:	10% (see comment below)
Emb. Observation:	5% (must be completed with Field supervisor)
Preceptor Grade:	10%
Reports:	10% (monthly and case reports must be submitted on time to receive full credit) (monthly reports must total 224 hours; 8 case reports must be submitted)

Attendance: Due to the limited number of embalming opportunities, students **cannot afford to miss a lab session**. If a schedule conflict occurs, it is the **student's** responsibility to find someone to take his/her place. Opportunities for make-up are limited or non-existent. An absence from lab may result in the final grade being reduced by a full letter grade.

Students are expected to be familiar with the LAB RULES as printed in the Funeral Service Supplement.

NOTE: Minimum "C" grade is required to pass this course.

100-94	A
93-90	A-
89-87	B+
86-83	B
82-80	B-
79-78	C+
77-75	C
74-60	D
>60	F