

Curriculum Action Request (CAR) (Form 4-93) - Maui Community College

Date Submitted to Curriculum Committee: 10/17/01

1. a. General type of action: program course
Alpha/No. of present course

b. Specific type of action: (check appropriate action below)

| | | |
|---------------------|----------------------------|----------------------|
| Addition: | Deletion: | Modification in: |
| X regular | <u>course</u> | <u>credits</u> |
| <u>experimental</u> | <u>from program</u> | <u>title</u> |
| (specify): | <u>number and/or alpha</u> | <u>prerequisites</u> |
| | | <u>description</u> |
| | | <u>program</u> |

2. Reason for this curriculum action:
Community need for Dental Assisting

3. Existing course: NA
Alpha Number Title credits

4. a. Proposed/modified course:

DENT 154 Dental Materials 1
Alpha Number Title (60 positions max. spaces count) credits

b. DENTAL MATERIALS
Abbreviated title (16 positions max.)

c. New Course Description and/or page number in catalog of present course description, if unchanged or modified:

Introduces the physical and chemical properties of dental materials, characteristics and manipulation of impression materials, gypsum products, investments, waxes, cements, resins, and metallic and non metallic restorative materials.

5. a. Prerequisites: DENT 151 with C or better

b. Corequisites: none

c. Recommended preparation: none

6. a. Semester Offered: fall spring fall/spring as needed na

b. Proposed semester/year of first offering: Spring semester 2003 year

c. other scheduling considerations? no yes, explain:

7. Student contact hours per week: lecture hrs lab hrs lecture/lab 2 hrs
other hrs, explain: NA

8. Revise current MCC General Catalog pages: 27, 78 Other:

9. Course grading: letter grade only credit/no credit either audit

10. Special fees required: no yes, explain:
11. Will this request require special resources (personnel, supplies, etc.)?
no yes, explain:
 dedicated classroom, Laboratory space, 1.0 FTE, Lecturers
12. a. Maximum enrollment: 24 Rationale, if applicable:
 Limited lab space
 b. Is this course restricted to particular room type? no yes,
 explain type of room required:
 Dental Laboratory
13. Course fulfill requirement for _____Dental Assisting_____program(s)
 Course is elective for _____NA_____program(s)
 Course is elective for AA degree _____NA_____program(s)
14. Course increase decreases makes no change
 in # of credit required for the program(s) affected by this action
 NA
15. Is this course cross-listed? no yes, identify course:
16. Is this course taught at another UH campus? no, specify why this
 course is offered at MCC:
 Support Dental Assisting Program
yes, specify campus, course, Alpha and Number:
- 17: a. Course is articulated at (check those that apply):
UHCC UH Manoa UH Hilo UH WO Other/PCC
 b. Course is appropriate for articulation at (check those that apply):
UHCC UH Manoa UH Hilo UH WO Other/PCC
 c. Course is not appropriate for articulation at (check):
UHCC UH Manoa UH Hilo UH WO Other/PCC
 d. Course articulation information is attached no yes
 Under investigation

Proposed by: Nancy Johnson

Approved by:

Nancy Johnson 10/16/01
 Author/Program Coordinator Date

Margie Kel 01/15/02
 Academic Senate Chair Date

Requested by:

Kate Acks Kate Acks 10-16-01
 Unit Chair Date

Doug Rubin 01/22/02
 Dean of Instruction Date

Recommended by:

[Signature] 2/05/01
 Curriculum Chair Date

[Signature] 2/16/02
 Provost Date

A telephone number, e-mail address, or mailing address at which we can contact the author, Program Chair, Unit Chair or Curriculum Rep during the summer:

MAUI COMMUNITY COLLEGE
COURSE OUTLINE

1. COURSE TITLE: DENT 154
Dental Materials
- NUMBER OF CREDITS: One credit (1)
- ABBREVIATED COURSE TITLE: Dental Materials
- DATE OF OUTLINE October 6, 2001

COURSE DESCRIPTION: Introduces the physical and chemical properties of dental materials, characteristics and manipulation of impression materials, gypsum products, investments, waxes, cements, resins, and metallic and non metallic restorative materials.

3. CONTACT HOURS PER WEEK: Two (2) hrs. Lecture/Lab
4. PREREQUISITES: DENT 151 with C or better
- COREQUISITE(S):
- RECOMMENDED PREPARATION: none

APPROVED BY  Date 01/22/02

5. GENERAL COURSE OBJECTIVES

- Identify the various materials used in the practice of dentistry and the structure, composition, uses, manipulations and properties of these materials.
- Demonstrate competency in manipulation of dental amalgam and commonly used impression materials.

6. SPECIFIC COURSE COMPETENCIES

Upon successful completion of DENT 152, the student should be able to:

- Describe or identify the characteristics, physical properties, uses, limitations, advantages and disadvantages of materials used in dental practice.
- Define the following forms used to describe the physical and chemical properties of dental materials: stress, strain, elasticity, strength distortion, relaxation, malleability, ductility, expansion, toxicity, thermal conductivity, bacteriostasis, and biologic responses to materials.
- Demonstrate mixing techniques for dental materials.
- Describe the possible biological responses stimulated or produced by the discussed dental materials.
- Select materials and armamentarium and prepare for a satisfactory impression or dental cast.

7. RECOMMENDED COURSE CONTENT AND APPROXIMATE TIME SPENT

- 3 weeks Physical and chemical properties of dental materials and biological responses
- 4 weeks Characteristics, uses, manipulation, limitations, advantages and disadvantages of: impression materials, gypsum products, dental restorative metals, dental cements and non metallic restorative materials, denture materials, dental adhesives.
- 3 weeks Mixing techniques for dental materials
- 5 weeks Specialized techniques and duties related to inlay and crown fabrication, amalgam placement, carving and polishing, and porcelain fusion.

8. RECOMMENDED COURSE REQUIREMENTS

Specific course requirements are at the discretion of the instructor at the time the course is being offered. Suggested requirements might include, but are not limited to, the following

- Attendance
- Lecture/discussion
- Seminar
- Supervised laboratory practice

9. TEXT AND MATERIALS

Text materials will be selected from the best and most up-to-date materials available, such as

Bird, D. et al, Torres and Ehrich Modern Dental Assisting, current edition, W.B. Saunders Co; ISBN: 0721695299.

Torres, Hazel, Modern Dental Assisting: Workbook, current edition, W.B. Saunders Co; ISBN: 0721676294.

Miller and Keane, Encyclopedia and Dictionary of Medicine, Nursing and Allied Health, current edition, Saunders.

Massler and Schour, Atlas of the Mouth, current edition, American Dental Association.

Finkbeiner, Betty L, Four-Handed Dentistry: A Handbook of Clinical Application and Ergonomic Concepts, current edition, Prentice Hall; ISBN: 0130304131.

State of Hawaii Department of Commerce and Consumers Affairs, Hawaii Administrative Rules Title 16, Chapter 79 Dentists and Dental Hygienists.\

State of Hawaii Department of Commerce and Consumers Affairs, Hawaii Revised Statutes Chapter 448, Dentistry.

10. EVALUATION AND GRADING

One or more midterm examinations, quizzes, and a final examination will be given. These tests may include any of the following types of questions: multiple choice, true-false; matching, short answer, short essay, and critical thinking. Exams will cover material from lectures, laboratory exercises, and reading assignments.

Satisfactory performance, C or better on Laboratory Practical Exam required.

| | |
|---------------------------|--------|
| Quizzes | 20-30% |
| Final | 20-30% |
| Laboratory Practical Exam | 50% |

11. METHODS OF INSTRUCTION

Instructional methods vary with instructors. Techniques may include, but are not limited to, the following

- Seminar
- Group projects
- Supervised laboratory practice