



DHYG 221 Dental Biomaterials Section Name Section Credit Hours Credits
Syllabus

Course Information

Meeting times and location: section meeting_times section location

Catalog description: A study of the composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the manipulation and application of materials used in dentistry.

Prerequisites: DHYG-222, DHYG-223, DHYG-224, DHYG-227, and DHYG-231. Take DHYG-225

Terms offered: Summer Only

Section-specific Course Description:

Course Level Objectives

1. Define the science of dental materials and describe the role that a dental auxiliary plays in the preparation and placement of dental materials.
2. Understand the behavior of dental materials, and handle these materials properly and safely.
3. Educate their patients regarding the risks, benefits applications, dental procedures and the proper maintenance of dental materials used in restorations and dental prosthetics.
4. Provide a variety of high quality therapeutic and preventive services within the dental hygiene scope of clinical practice that involve selection and manipulation of appropriate dental materials.
5. Make the appropriate clinical judgments in the selection and use of dental materials and their subsequent reaction in the oral environment.
6. Understand the physical, chemical, and biological properties of specific dental materials.
7. Demonstrate current, acceptable aseptic and safety procedures in both laboratory and clinical settings when using a given material or providing therapeutic preventive services.

8. Evaluate effects of specific materials on the oral environment, the effectiveness of such materials in prevention and treatment of oral disease, and the factors which influence the quality of dental materials.
9. Identify and differentiate between various dental materials (in vivo, in vitro and radiographically) and their respective properties.
10. Facilitate the selection, preparation, manipulation, placement, and care of the materials used in dentistry.

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Technical Support

Technical support is available through the San Juan College Help Desk 24/7/365. The help desk can be reached at 505-566-3266 or by creating a ticket at [San Juan College Help Desk](#).

For password reset and Canvas support, visit the [Student Technology Guide](#) website.

Accessibility/Privacy Policies for all Technology Tools Used

[Accessibility/Privacy Policies for all Technology Tools Used](#)

Course Requirements

Students will do the following activities:

Healthy and Safe Practices for Being on Campus

We want a healthy and safe campus for students, faculty, staff, and guests.

Contagious diseases and your responsibility:

If you have COVID-19 symptoms, fever, flu or even the common cold, you should stay home. Do not come to campus if you are feeling sick. Contact your instructor about missing class (and review your instructor's policies on missed or late work). Being sick does not necessarily excuse you from completing your work on time.

Safety on campus and your responsibility:

If you are on campus and experience or witness an emergency, call 9-1-1 first and then the Department of Public Safety at 505-566-3333 (or just 3333 if calling from a campus phone).

When you are on campus, be aware of your surroundings. If you need an escort to your vehicle, call 505-566-4444 (DPS non-emergency line) or 505-215-3091 (officer on duty line).

The College will send information for campus emergencies through SJC AlertAware, email and the webpage. Stay informed and stay safe.

Student Support

At San Juan College, we are committed to supporting your academic success and overall well-being. We recognize that college life can be challenging and stressful, impacting both learning and personal health. We are here to help you succeed.

Academic Support and Resources

We provide a range of academic support services to help you stay on track on your educational journey. Free resources include tutoring, computer loans, life skills workshops, and so much more. Visit the [Academic Support and Resources](#) webpage to learn more about support and resources available through Academic Advising, the Tutoring Center, the Student Resource Center (formerly Student Achievement Center) and the Testing Center.

Student Support and Resources

If you or someone you know could benefit from counseling, accessibility services, career exploration, veteran transitional assistance, or any of our other support services, visit the [Student Support and Resources](#) webpage where you'll find detailed information about various resources available to you as an SJC student.

We encourage you to take advantage of these free resources to enhance your college experience and ensure your success.

Participation and Attendance Policy

During this course it is expected that the student prepare for class. This includes reading or viewing the information to be discussed prior to class. Students should be prepared to participate in active learning discussions in each class on the topic assigned for that day. If the student has adequately prepared for the class there should be little trouble passing quizzes, exams or completing course assignments.

Students are expected to attend all regularly scheduled classes for which they are registered. Valid reasons for missing classes do not relieve the student from making up any missed work. Students are expected to be in the classroom, laboratory or clinic and be ready to begin the session on time.

Canvas Participation and Expectations

Students are expected to use Canvas to check on course updates, assignments and grades

Distance Education Policy

Distance Education Policy

New technologies allow for the delivery of education in a multitude of different formats. Many of these may involve distance education in which instruction to students may be delivered while separated from the instructor, either synchronously or asynchronously. This may include technologies such as the CANVAS learning management system, use of email correspondence, and the internet and audio/video conferencing. In light of these ever changing technologies, the following are expectations of student behavior with regard to distance education;

Academic Honesty

The standards and requirements of academic honesty and integrity apply to all Dental Hygiene Students whether engaged in or utilizing distance-education or not. Any required work submitted by the student must be their own. This applies to any course within the Dental Hygiene curriculum.

Safeguards

San Juan College has ensured that safeguards are in place with regard to student login and passcode access to the CANVAS learning management system. Distance education within the Dental hygiene Program curriculum will therefore utilize this leaning management system. In order to protect student privacy, students shall not share such log-in and passcode informing.

Tuition & Fees

There are no additional student charges associated with the utilization of distance education within the Dental Hygiene curriculum and/or with the verification of student identity at the time of registration or enrollment.

Instructor Response Times & Regular Interaction Expectations

Typical response time for email is 1-2 days. Exams are typically graded within 1 week.

Course Time Commitment

Students should expect to spend 6-9 hours outside of class each week on this course.

Grading

Final grades are calculated based on the following...

A = 90 – 100%

B = 80 - 89%

C = 75 - 79%

D = 65 - 74%**

F = Below 65%**

Category	Weight
Quizzes	30
Final	30
Lab Modules	40

Key Dates to Remember

[Full Academic Calendar](#)

Course Schedule

See separate course schedule

College Policies and Resources for Current Students

The [Student Handbook](#) provides information on student support, student organizations, and student conduct policies at San Juan College.

The San Juan College catalog outlines the [Academic Policies](#) students need to know.

Inclement Weather Information

Students will receive notification of class delays and cancellations due to inclement weather via the SJC AlertAware and SJC student email. Face-to-face classes will not meet in person; however, students are advised to check with instructors about alternative meeting options, as some may choose to meet via zoom. Hybrid classes will meet as scheduled via zoom. For questions regarding your class delay or cancelation, please contact your instructor.

Online Course Fee

Online Courses - San Juan College requires all online courses to include some form of assessment to demonstrate the mastery of course objectives. This could include exams, capstone projects, e-portfolios, presentations, final papers or other appropriate assessments. The use of a proctoring platform, plagiarism detection software or other method to ensure that assessments are completed by the enrolled student is required.

A course fee of \$5.00 is assessed for all online courses at San Juan College to cover the cost of the above services. Students who are required to take a proctored exam and choose to use a physical testing center outside the SJC Testing Center or SJC Disability Services will be responsible for the cost of using that center.