CSAD 662: IMPLANTABLE DEVICES AND TECHNOLOGY

In Workflow

1. CSAD Committee Chair (l.gaeta@csus.edu; hagge@csus.edu)
2. CSAD Chair (hagge@csus.edu)
3. HHS College Committee Chair (irwin.thompson@csus.edu)
4. HHS Dean (patterson@csus.edu)
5. Academic Services (catalog@csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (gardner@csus.edu)
8. Catalog Editor (catalog@csus.edu)
9. Registrar's Office (k.mcfarland@csus.edu)
10. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. 2026-10-13T00:41:30Z
   Laura Gaeta (l.gaeta): Approved for CSAD Committee Chair
2. 2026-10-14T17:17:21Z
   Darla Hagge (hagge): Approved for CSAD Chair
3. 2026-10-20T23:03:39Z
   Scott Thompson (irwin.thompson): Rollback to Initiator
4. 2026-10-21T20:09:43Z
   Laura Gaeta (l.gaeta): Approved for CSAD Committee Chair
5. 2026-10-21T20:20:47Z
   Darla Hagge (hagge): Approved for CSAD Chair
6. 2026-10-21T20:33:17Z
   Scott Thompson (irwin.thompson): Approved for HHS College Committee Chair
7. 2026-10-23T00:15:04Z
   Aishah Patterson (patterson): Approved for HHS Dean

History

1. Sep 28, 2019 by 212408496

New Course Proposal

Date Submitted: 2026-10-21T19:59:35Z

Viewing: CSAD 662 : Implantable Devices and Technology

Last approved: Sat, 28 Sep 2019 14:01:11 GMT

Last edit: 2026-10-21T19:59:33Z

Changes proposed by: Laura Gaeta (219773451)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Laura Gaeta	l.gaeta@csus.edu	9162784701
Darla Hagge	hagge@csus.edu	9162786695

Catalog Title:
Implantable Devices and Technology

Class Schedule Title:
Implant Device Tech

Academic Group: (College)
HHS - Health & Human Services

Academic Organization: (Department)
Communication Sciences and Disorders

Will this course be offered through the College of Continuing Education (CCE)?
No

Catalog Year Effective:
Fall 2027 (2027/2028 Catalog)

Subject Area: (prefix)
CSAD - Communication Sciences and Disorders

Catalog Number: (course number)
662

Course ID: (For administrative use only.)
203193

Units:
2

Is the ONLY purpose of this change to update the term typically offered or the enforcement of existing requisites at registration?
No

In what term(s) will this course typically be offered?
Summer Only

Does this course require a room for its final exam?
Yes, final exam requires a room

This course complies with the credit hour policy:
Yes

Justification for course proposal:
Add co-requisite for new laboratory course

Course Description: (Not to exceed 90 words and language should conform to catalog copy.)
Pre-operative assessment and post-operative management of cochlear implants and other implantable devices. Includes patient counseling for expectations, introduction to surgical procedures, mapping, use of assistive devices, and current developments in research.

Are one or more field trips required with this course?
No

Fee Course?
No

Is this course designated as Service Learning?
No

Is this course designated as Curricular Community Engaged Learning?
No

Does this course require safety training?
No

Does this course require personal protective equipment (PPE)?
No

Does this course have prerequisites?
Yes

Prerequisite:
Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653

Prerequisites Enforced at Registration?
Yes

Does this course have corequisites?
Yes

Corequisite:
CSAD 662L

Corequisites Enforced at Registration?
Yes

Graded:
Letter

Approval required for enrollment?
No Approval Required

Course Component(s) and Classification(s):
Lecture

Lecture Classification
CS#02 - Lecture/Discussion (K-factor=1WTU per unit)
Lecture Units
2

Is this a paired course?
No

Is this course crosslisted?
No

Can this course be repeated for credit?
No

Can the course be taken for credit more than once during the same term?
No

Description of the Expected Learning Outcomes and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	Outline the historical developments in implantable technology for hearing impairment.	Quiz 2, Midterm and Final Exam
2	Describe candidacy requirements for a cochlear implant in pediatric and adult populations, including federal regulatons, contraindications, and audiologic and medical assessments.	Quizzes 2-3, Midterm and Final Exams
3	List the major components of a cochlear implant, bone-anchored hearing aid, and middle-ear implant.	Quizzes 2-4, Midterm and Final Exams
4	List the professionals typically involved in pediatric and adult cochlear implant teams.	Quizzes 2, 4, Midterm and Final Exams
5	Compare and contrast the three major cochlear implant manufacturers, including programming, electrodes, electrode arrays, dimensions, depth of implantation, casing, magnets, sound processors, dynamic range, user controls, accessories, and batery life.	Quizzes 4, Midterm and Final Exams, CI Software Practicum Activities, Clinic Resource Guide, Discussion Questions, Clinic Session Reflection, Case Presentation
6	Describe verification and validation procedures for implantable devices.	Quizzes 3 and 4, Midterm and Final Exams, CI Software Practicum Activities, Clinic Session Reflection, Case Presentation

7	Outline mapping procedures for cochlear implants.	Quizzes 3 and 4, Midterm and Final Exams, CI Software Practicum Activities, Clinic Session Reflection, Case Presentation
8	Summarize surgical procedures for cochlear implants, bone-anchored hearing aids, middle-ear implants, and auditory brainstem implants.	Quizzes 2, Midterm and Final Exams

Attach a list of the required/recommended course readings and activities:

Required Readings and Assignments.docx

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

No

Identify the program(s) in which this course is required:

Programs:
Doctor of Audiology

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Doctorate Learning Goal(s):

Disciplinary knowledge
Communication
Critical thinking/analysis
Information literacy
Professionalism
Intercultural/Global perspectives
Research

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

Is this a Graduate Writing Intensive (GWI) course?

No

Please attach any additional files not requested above:

csad-662-01-summer-2027-revised.docx

Reviewer Comments:

Scott Thompson (irwin.thompson) (Tue, 20 Oct 2026 23:03:39 GMT): Rollback: Please attach syllabus or reading list.

Key: 13956