

NURS 624: ADVANCED STATISTICS & BIOSTATISTICS

In Workflow

1. NURS Chair (kristi@csus.edu)
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Approval Path

1. Sat, 09 Nov 2024 23:43:23 GMT
Tanya Altmann (kristi): Approved for NURS Chair
2. Wed, 20 Nov 2024 01:15:32 GMT
Andrea Becker (andrea.becker): Rollback to Initiator
3. Thu, 28 Nov 2024 00:59:04 GMT
Tanya Altmann (kristi): Approved for NURS Chair
4. Mon, 02 Dec 2024 18:05:45 GMT
Andrea Becker (andrea.becker): Approved for HHS College Committee Chair
5. Mon, 02 Dec 2024 20:52:13 GMT
Robert Pieretti (sac19804): Approved for HHS Dean

New Course Proposal

Date Submitted: Wed, 27 Nov 2024 23:08:06 GMT

Viewing: NURS 624 : Advanced Statistics & Biostatistics

Last edit: Thu, 28 Nov 2024 00:58:51 GMT

Changes proposed by: Tanya Altmann (101067274)

Contact(s):

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|-------------------|-------------------------|--------------------|
| Christie Smart | christie.smart@csus.edu | 209-406-2649 |

Catalog Title:

Advanced Statistics & Biostatistics

Class Schedule Title:

Adv Statistics & Biostatistics

Academic Group: (College)

HHS - Health & Human Services

Academic Organization: (Department)

Nursing

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2026 (2026/2027 Catalog)

Subject Area: (prefix)

NURS - Nursing

Catalog Number: (course number)

624

Course ID: (For administrative use only.)

TBD

Units:

3

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?

Spring term only

Does this course require a room for its final exam?

No, final exam does not require a room

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

A majority of the advanced practice nursing organizations are proposing the Doctor of Nursing Practice (DNP) as entry into advanced practice. A DNP degree offers several benefits that can shape an individual's health care career, opening new opportunities, building on specialized knowledge, and improving performance. Therefore, the School of Nursing applied to have a DNP program added to the campus master plan and received approval spring 2024. This course proposal is for one of the required courses in this new program.

In addition to meeting CSU requirements for doctoral education and postsecondary faculty preparation, this course will be part of a program accredited by the Commission on Collegiate Nursing Education (CCNE). CCNE standard include 29 "Essentials" for curriculum and requires 1,000 practicum hours and that students become eligible for an advanced certification (Certified Nurse Leader (CNL®), Nursing Professional Development (NPDTM), or Certified Nurse Educator (CNE®)). This course covers:

Essentials: Doctoral Education #6. Evidence-based practice; Postsecondary Faculty Preparation #1. Research and scholarship; Nursing Practice #4. Scholarship for nursing discipline; Core Concepts #1. Scientific underpinnings for practice, & #8. Advanced nursing practice

Certifications: CNL #2. Quality improvement (including analyzing data), #3. Evidence-based practice (including critical appraisal of research), & #7. Patient outcomes measurement; NPDTM #4. Evidence-based practice and research; CNE #4. Assessment/measurement & evaluation

Course Description: (Not to exceed 90 words and language should conform to catalog copy.)

Advanced skills in generating and interpreting biostatistical data from human subject research. Emphasis on statistical techniques including inferential and non-inferential methods, univariate and multivariate statistics, and hypothesis testing. Evaluation of datasets through a statistical software package.

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:

NURS 219, NURS 221, NURS 222, NURS 660A

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

Yes

Corequisite:

NUR 620, NURS 622, NURS 660B

Corequisites Enforced at Registration?

Yes

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Seminar

Seminar Classification

CS#05 - Seminar (K-factor=1 WTU per unit)

Seminar Units

3

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 | Evaluate statistical analyses based on a nursing practice research question, study design, data collection procedures, and instruments. | Discussion Boards Quizzes Critical Analysis of Statistical Conclusion |
| 2 | Critique analytic methods and conclusions from research literature. | Discussion Boards Quizzes Critical Analysis of Statistical Conclusion |
| 3 | Utilize statistical software packages to analyze datasets with advanced statistical methods. | Statistical Activities Statistical Conclusions in a Population Assignment |
| 4 | Create graphic representations of descriptive and multivariate statistical data. | Statistical Activities Statistical Conclusions in a Population Assignment |

- 5 Apply statistical methods and interpret findings about population data. Discussion Boards
Quizzes
Statistical Activities
Statistical Conclusions in a Population Assignment

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

NURS 624 Readings & Activities 11_21.docx

For whom is this course being developed?

Majors in the Dept

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

Yes

Has a corresponding Program Change been submitted to Workflow?

Yes

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

Programs:

Doctor of Nursing Practice

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
Critical thinking/analysis

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:

NURS 624 Syllabus for AC 11-27.docx

Reviewer Comments:

Andrea Becker (andrea.becker) (Wed, 20 Nov 2024 01:15:32 GMT): Rollback: Minor Revisions (see document from committee chair)

Key: 15241