

## Summary of CCN Statistics Subcommittee Memo on STAT 244

The following provides a summary of the Subcommittee's recommendation to remove STAT 244 from the list of CCN courses.

### Recommendation

MATH or STAT 244 (Elementary Statistics 2) is not appropriate at this time for course alignment in the common course numbering alignment work and should be removed from the list of CCN courses for 2022-23 and delayed until a future review.

*Chart approved by CCN Statistics Co-chair Joseph Reid, 10/18/2022*

**HECC Recommendation:** HECC staff recommends delaying the MATH/STAT 244 from the list of CCN courses because it is not a commonly transferred course (from community colleges to public universities) and the subject matter changes in Stat 243 will significantly impact what topics need supported by a Stat 244 course. Currently, five community colleges do not offer this course. SOU is phasing out this course this year, EOU offers a 1-credit course that covers a small portion of MATH/STAT 244, and only two public universities (PSU and OSU) offer the course, for a very limited number of programs that serve a limited number of students annually.

**MEMORANDUM****TO:** Transfer Council**FROM:** Joseph Reid, Chair of CCN Statistics Subcommittee**DATE:** October 5, 2022**SUBJECT:** MATH or STAT 244 as a CCN course, addressed by the CCN STAT Subcommittee

After deliberation, our subcommittee concluded that the Math (Stat) 244 (Elementary Statistics 2) course is not appropriate for course alignment in the standard course transfer agreements (CCNS) between community colleges and universities at this time:

1. This course is not in the list of the thirty most common transfer courses within the system.
2. Changes within the Stat 243 course need to be fully considered in the curricula and the effect needs to be observed in order to know the place of Stat 244 within the transfer maps.
3. Of the seventeen community colleges, five do not even offer this course.
4. Lack of course offering for transfer articulation at five of the seven state universities:
  - a. At this point University of Oregon, Oregon Tech, and Western Oregon University do not offer this course.
  - b. Southern Oregon University is phasing this course out after this school year.
  - c. Eastern Oregon University only offers a 1 credit course that covers a small portion of this material and has no need or plans for the full course.
5. Oregon State University and Portland State University are the only public universities that offer, and plan on continuing to offer, this course. (OSU-ST 202; PSU – Stat 244)

However, this offering is only required in a few programs at each institution:

- a. At Portland State University, Stat 244 serves as a requirement for:
  - i. Anthropology B.S.
  - ii. Biology B.S.
  - iii. Economics B.S.

and as an optional course in:

- i. Geography B.S.
- ii. Psychology B.S.
- iii. Speech and Hearing Sciences B.S.

Enrollment: Winter: 132, Spring: 85, Summer: 26, Fall: 49

Total Yearly Enrollment: 292 students per year

\*Portland State does not have disaggregated graduation data posted on their institutional research page, thus we cannot determine enrollment or graduation numbers in these majors.

- b. At Oregon State University, Stat 202 serves as a requirement for:
  - i. Outdoor Products B.S.  
2022 – 3 graduates
  - ii. Tourism, Recreation, and Adventure Leadership B.S. – Two options within the program.  
2022 - 20 graduates
  - iii. Bio Health Sciences B.S.: Only in the pre Optometry option and Pre-PA Option  
2022 – 149 graduates within Bio Health Sciences degree but it is unknown how many in these two options total.

and as an optional course in:

- i. Toxicology graduate minor
- ii. Radiation Health Physics B.S.

iii. Human Development and Family Sciences

Enrollment: Spring: 34, Fall: 22, Winter: 27

Total Yearly Enrollment: 83 students this last year.

At both Portland State and Oregon State, these courses may also be used as one of several available choices of prerequisites for several graduate courses as well, but this should not really play into the “transfer” numbers with community colleges.

In general, Oregon State University is serving around 50 to 100 students per year that are required to take the ST 244 course. As enrollment numbers are similar at Portland State University, we can infer that the students required to take this course for graduation are similar. Even if these numbers are higher, the gross total is only a small fraction of the total students at these institutions let alone those participating in community college and university within the state. Even if half (an overestimate) of the students in these programs requiring ST 244 are transferring from community colleges, this would leave less than 10 students per year per community college on average where Stat 244 is a course of concern for transfer. In situations like this, the course outcomes and topics must be flexible and adaptable to both the programs that these courses are designed to support and the changes within those fields. It would be far better for the particular universities and programs under consideration to be involved in feedback for these specific transfer requirements after the effects of Stat 243 changes have taken place..

Therefore, we are requesting that Transfer Council delay MATH/STAT 244 from consideration as a CCN course at this time.

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Members of the CCN Statistics Subcommittee