PROGRAM-SPECIFIC COMPETENCIES - MATHEMATICS AND STATISTICS

Competencies are the skills, knowledge and attributes gained through every work, educational, volunteer and life experience.

UVic students in Mathematics and Statistics develop the following program-specific competencies. We worked with the Department of Mathematics and Statistics to develop this document.

SITUATIONAL PROBLEM SOLVING
Solves situational problems related to mathematics and statistics
- Decodes a situational problem
- Shares information related to the solution
- Models a situational problem
- Validates the solution
- Applies different strategies to work out a solution

MATHEMATICAL AND STATISTICAL REASONING
Reasons using mathematical and statistical concepts and processes
- Defines the elements of mathematical/statistical situations
- Justifies actions or statements by referring to mathematical/statistical concepts and processes
- Mobilizes mathematical/statistical concepts and processes appropriate to the given situation
- Applies mathematical/statistical processes appropriate to the given situation

MATHEMATICAL AND STATISTICAL COMMUNICATION
Communicates by using mathematical and statistical language
- Is familiar with the mathematical/statistical vocabulary
- Interprets or produces mathematical/statistical language
- Makes connections between mathematical/statistical language and everyday language