

# PROGRAM-SPECIFIC COMPETENCIES - MATHEMATICS AND STATISTICS

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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.

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## 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