Transferable skills (sometimes called key skills or employability skills) developed through study of mathematics and statistics

A Mathematics and Statistics graduate should have developed **analytical** skills enabling them to:

- Think clearly
- Pay attention to detail
- Manipulate precise and intricate ideas
- Follow complex reasoning
- Construct logical arguments and expose illogical ones
- Plan ahead and think through consequences
- Absorb, condense and logically present information, with a concluding statement where appropriate

A Mathematics and Statistics graduate should have developed **problem solving** skills enabling them to:

- Formulate a problem in precise terms, identifying the key issues
- Present a solution clearly, making their assumptions explicit
- Gain insight into a difficult problem by looking at special cases or sub-problems
- Be flexible, and approach the same problem from different points of view
- Seek optimal solutions, and weigh up evidence
- Tackle a problem with confidence, even when the solution is not obvious

A Mathematics and Statistics graduate should have developed **investigative** skills enabling them to read around a subject in order to help them understand new and difficult subject matter.

A Mathematics and Statistics graduate should have developed **communication** skills enabling them to:

- Write mathematics clearly and effectively
- Write quantitative reports, including use of appropriate representation of data
- Present a mathematical argument to others

A Mathematics and Statistics graduate should have developed **good working habits** enabling them to:

- Be thorough and painstaking in their work
- Organise their time and meet deadlines
- Work co-operatively with others to solve common problems.

Generally, they should have developed the following skills:

- Determination
- Perseverance
- Creativity
- Self-confidence
- Intellectual rigour

Generally, they should have command of an intellectual and fundamental subject which can be applied in a huge range of disciplines and careers.