# Assessment Survey
(Junior/Senior)

I. Please assess how well prepared you are now to do the following:

1. Translate a real world situation into mathematical symbology:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

2. Interpret mathematical conclusions in terms of real world situation described by the mathematics:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

3. Evaluate the reasonableness of the mathematical results obtained:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

4. Identify an effective computational method for solving a mathematical problem:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

5. Implement the chosen computational method correctly when solving a mathematical problem:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

6. Use a correct method to check the accuracy of the computational results:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

7. Determine the validity and rigor of a given mathematical argument, e.g., a proof:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

8. Develope a valid and rigorous argument from given assumptions and definitions:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

9. Present your calculations and arguments clearly:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

10. Present your calculations and arguments in detail:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

II. Now please assess the importance of each of the following to your personal goals once you have completed a mathematics major at ISU.

1. Translate a real world situation into mathematical symbology:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

2. Interpret mathematical conclusions in terms of real world situation described by the mathematics:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

3. Evaluate the reasonableness of the mathematical results obtained:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

4. Identify an effective computational method for solving a mathematical problem:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

5. Implement the chosen computational method correctly when solving a mathematical problem:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

6. Use a correct method to check the accuracy of the computational results:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

7. Determine the validity and rigor of a given mathematical argument, e.g., a proof:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

8. Develope a valid and rigorous argument from given assumptions and definitions:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

9. Present your calculations and arguments clearly:

| 1 (little importance) | 2 | 3 | 4 | 5 (very important) |
|---|---|---|---|---|
| | | | | |

10. Present your calculations and arguments in detail:

| 1 (poorly prepared) | 2 | 3 | 4 | 5 (very well prepared) |
|---|---|---|---|---|
| | | | | |

III. Please state briefly what your goals are once you have completed your mathematics major at ISU.

IV. Please indicate any ways you can see that we can improve the undergraduate major.