

## 2017-2018 Graduating Senior Survey: Department of Mathematics

### INSTRUCTIONS:

The Department of Mathematics is very interested in your opinions, and believes that as a graduating senior you can provide it with useful information to help evaluate and improve its program. We appreciate your taking the time to answer these questions.

Once you have answered all the questions, you must click on the **NEXT** button at the end of the form to submit your answers.

**Please rate the extent to which you agree or disagree with each of the following statements about your experiences in the Department of Mathematics.**

	Agree	Tend to agree	Neither agree nor disagree	Tend to disagree	Disagree	Not applicable
1. My program included enough classroom presentations for me to gain good oral presentation skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. My program included enough written reports for me to gain good report-writing skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. My program provided good training for the analysis and interpretation of data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The coursework activities in my program as a whole required synthesis, creativity, and open-ended thinking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Based on the quality of teaching and education I received in my program, I would recommend it to a friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**If you could use any reference materials or software, indicate your level of confidence in your ability to complete each of the following tasks.**

	Completely confident	Somewhat confident	Not very confident	Could not do it
6. Construct, analyze, evaluate, and correct mathematical arguments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. Present mathematical arguments and results to peers and others, in a manner that is mathematically correct and appropriate for the audience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Demonstrate a conceptual understanding of techniques and tools in linear algebra by analyzing examples and results dealing with concepts such as vector spaces, bases, linear transformations, eigenvalues and eigenvectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Apply various methods to find explicit, implicit or approximate solutions to differential equations, explain the qualitative behavior of solutions of differential equations, and use differential equations to model physical and biological systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Prove mathematical statements, ask coherent questions and solve mathematical problems using basic abstract algebraic concepts such as groups, rings, fields and their homomorphisms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Have a conceptual understanding of techniques and tools in analysis by analyzing examples and generating correct and convincing proofs dealing with basic analytic concepts such as limits, continuity, differentiation, and integration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**12. Which of the following statements best describes how well you think your grades generally match your expectations?**

- In general my grades are worse than I expect to get
- In general I get the grades I expect to get
- In general my grades are better than I expect to get

**13. And which of the following statements best describes how well you think your grades generally match your ability?**

- In general my grades underestimate my ability
- In general my grades reflect my ability
- In general my grades overestimate my ability

**14. Please use this space to share any general comments you have about your experience in the College or your department, and/or tell us why you were particularly satisfied or dissatisfied with any aspect of your education in the College.**

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Thank you for completing the Graduating Senior Survey for the Department of Mathematics. **Please be sure to click on the 'Next' button to submit your responses.**

Depending on the major(s) in which you will be earning a degree from NC State in either December 2017 or May 2018, after clicking on the 'Next' button you might be directed to additional questions for your major(s). Your department very much appreciates your taking the time to answer these questions.