



## Discrete Mathematics with Ducks

By Sarah-Marie Belcastro



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Containing exercises and materials that engage students at all levels, **Discrete Mathematics with Ducks** presents a gentle introduction for students who find the proofs and abstractions of mathematics challenging. This classroom-tested text uses discrete mathematics as the context for introducing proofwriting.

Facilitating effective and active learning, each chapter contains a mixture of discovery activities, expository text, in-class exercises, and homework problems.

- Elementary exercises at the end of each expository section prompt students to review the material
- *Try This!* sections encourage students to construct fundamental components of the concepts, theorems, and proofs discussed.
- Sets of discovery problems and illustrative examples reinforce learning.
- Bonus sections can be used for take-home exams, projects, or further study
- Instructor Notes sections offer suggestions on how to use the material in each chapter

**Discrete Mathematics with Ducks** offers students a diverse introduction to the field and a solid foundation for further study in discrete mathematics and complies with SIGCSE guidelines. The book shows how combinatorics and graph theory are used in both computer science and mathematics.

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## Discrete Mathematics with Ducks By Sarah-Marie Belcastro Bibliography

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### Editorial Review

#### Review

This book can certainly be used to teach the standard course in discrete mathematics designed for computer science majors. The lighter touch of duck references does amuse you and does not ever overshadow or disguise the mathematical concepts.

?Charles Ashbacher, *MAA Reviews*, August 2012

When I used **Discrete Mathematics with Ducks** in class, I assigned readings, and my students came to class full of questions and ideas. Every day we had a good time in one way or another; these classes were a highlight of my teaching career. I give a lot of credit to this book, thanks to the author's skill at blending rigor, great examples, casual humor, and precise writing.

?David Perkins, author of *Calculus and Its Origins*

I had a lot of fun teaching from **Discrete Mathematics with Ducks!** ... I think the discovery/exploratory/problem solving approach is ABSOLUTELY the way this course should be taught, and of all the discrete books I have looked at, this text does the best job of supporting that kind of approach to the subject while still giving enough of the material in writing to fill in the gaps. ... I found that the material provided and the instructor notes cut down on my prep time, and I definitely referred to them. Having the in-class activities included is a huge benefit to this book.

?Dana Rowland, Associate Professor of Mathematics, Merrimack College

... an incredible book ... readable by students, useful for instructors, and constructed with style and flair. This book will make it much easier to teach an exciting, student-centered discrete mathematics course that will also serve as an excellent introduction to advanced critical thinking, problem solving, and proofs. And there are ducks!

?Douglas Shaw, Professor of Mathematics, University of Northern Iowa

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#### James Ponce:

Do you certainly one of people who can't read satisfying if the sentence chained inside the straightway, hold on guys this aren't like that. This Discrete Mathematics with Ducks book is readable simply by you who hate the perfect word style. You will find the facts here are arrange for enjoyable studying experience without leaving perhaps decrease the knowledge that want to provide to you. The writer regarding Discrete Mathematics with Ducks content conveys thinking easily to understand by a lot of people. The printed and e-book are not different in the content material but it just different by means of it. So , do you continue to thinking Discrete Mathematics with Ducks is not loveable to be your top record reading book?

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