Example Text 1: Nearly all of the topics in the first chapter of this course cover something about the differential geometry of curves and surfaces. The first chapter will give you a good understanding of Euclidean space and its geometric properties.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 2: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 3: The text is mostly self-contained, but a background in topology and algebra is necessary and any additional point-set topics can be learned as needed. A project on homology theory covers homology and cohomology and culminates in a final presentation on Poincaré duality. In addition, it would be very rewarding for students to continue working on their projects related to topology and algebra.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 4: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 5: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 6: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 7: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 8: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts

Example Text 9: We will work through some of the most classical parts of the theory of smooth curves and surfaces.

Suggested Prerequisites

- Basic knowledge of linear algebra
- Familiarity with calculus concepts