

The Procedure for Preparing a Proposal  
for the Master of Science in  
Applied Mathematics and Computer Science

After the initial selection of the thesis topic and the major advisor,

1. The student and the advisor will identify the other members of the student's committee, and inform the director. (See Thesis Proposal Route Sheet)
2. The student and the advisor will develop the proposal through several iterations until both are satisfied. (See Proposal Format)
3. The proposal is submitted to the other committee members for their approval. Changes are made if necessary.
4. Once the committee has approved the proposal, the graduate director is informed.
5. A copy of the proposal and the route sheet should be given to the director to keep in the student's file.

# INDIANA UNIVERSITY SOUTH BEND

## COLLEGE OF LIBERAL ARTS AND SCIENCES

### Master of Science in Applied Mathematics and Computer Science

## THESIS PROPOSAL ROUTE SHEET

DEPARTMENT:

---

PROPOSAL  
TITLE:

---

STUDENT NAME:

---

## SIGNATURES

THESIS ADVISOR:

\_\_\_\_\_  
DATE \_\_\_\_\_

COMMITTEE MEMBER:

\_\_\_\_\_  
DATE \_\_\_\_\_

COMMITTEE MEMBER:

\_\_\_\_\_  
DATE \_\_\_\_\_

COMMITTEE MEMBER:

\_\_\_\_\_  
DATE \_\_\_\_\_

GRADUATE DIRECTOR:

\_\_\_\_\_  
DATE \_\_\_\_\_

# Proposal Format

(No more than 10 pages)

- “ Cover Page
- “ Abstract (No more than 300 words)
- “ Table of Contents
- “ Introduction
  - “ Statement of problem
  - “ Importance of the problem
- “ Literature Review
- “ Proposed Solution
  - “ Development of new or novel methodology
  - “ Application of new solution to an existing problem
  - “ Application of existing approaches to new problems
- “ Requirements
  - “ Necessary tools (hardware, software, network)
- “ Expected Outcome
  - “ Publication of work in scholarly journals or conference proceedings
  - “ Construction of Software
  - “ Development of new algorithms
- “ Conclusion
- “ References and Bibliography