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Welcome

Welcome to the Modeling and Simulation Graduate Program at Old Dominion University and the Virginia Modeling, Analysis, and Simulation Center (VMASC).

The Modeling and Simulation program of study is interdisciplinary as the nature of modeling and simulation has become a multi-disciplinary activity. It is housed in the Batten College of Engineering and Technology and the degree is awarded through the college. The program draws upon courses from ten different academic departments and spans three colleges of the University. As M&S students you have the unique opportunity to draw from the expertise of these various disciplines for you are now embarking on a course of study that will prepare you as professionals to manage contemporary simulation development and application issues.

The masters degrees emphasize a strong, common subject core to provide a common academic foundation for all simulation students. With this grounding in methods, principles, and philosophy in simulation, you will have the mechanisms to work across disciplines and domains while maintaining a common frame of reference for communication, technical specialization, and advanced research and study.

The Ph.D. program focuses on developing your skills and knowledge to conduct and evaluate independent, original research in an area of modeling and simulation. Completion of this program prepares you for a career in teaching and research.

This handbook is designed to assist students enrolled in either the masters or Ph.D. program. The information in the handbook complements the ODU catalog by providing specific details about the three Modeling and Simulation programs (Master of Engineering, Master of Science, Ph.D.).

Ultimately, your success in the graduate program rests with you. Your active participation in seminars and reading materials and your contribution to the field of study via your research will significantly affect your personal growth and development as well as add to the overall body of knowledge in the discipline.

Sincerely,

Dr. Roland R. Mielke  
Graduate Program Director, M&S Graduate Program  
College of Engineering and Technology  
Email: rmielke@odu.edu

Dr. Catherine Banks  
Director of Academic and Student Services  
Virginia Modeling, Analysis and Simulation Center  
Email: cmbanks@odu.edu
GRADUATE DEGREE PROGRAMS

Masters Programs in Modeling and Simulation

The master degrees in modeling and simulation emphasize a strong, common subject core while providing the student with the flexibility to design a plan of study to meet each individual’s study objectives and needs. The purpose of the program’s subject core is to provide a common academic foundation for all simulation students. Thus, all students in this program will have grounding in the same methods, principles, and philosophy of simulation. This provides the mechanisms for the simulationist to work across disciplines and domains while maintaining a common frame of reference for communication, technical specialization, and advanced study and research.

A significant resource to the program is the Virginia Modeling, Analysis and Simulation Center (VMASC) whose primary purposes include the advancement of the state-of-the-art in modeling and simulation through research and development and the transfer of modeling and simulation technology to industry, education, and government. Constituent interest in this center is shared by numerous industrial partners as well as local Department of Defense organizations, particularly the U.S. Joint Forces Command.

The program subject core consists of:

- an overview of modeling and simulation
- an in-depth exploration of a specific simulation methodological approach (e.g., discrete event simulation)
- simulation system modeling principles and paradigms
- an introduction to computer visualization and visual simulation
- principles of analysis and operations research.

Most courses are offered in evenings and are in distance learning forms at graduate centers across the region.

Prerequisites

Mathematics All students must have mathematics course work MATH 211 Calculus I (differentiation and integration of algebraic and transcendental functions of one variable and applications) and MATH 212, Calculus II (techniques of integration, polar coordinates, infinite series, and solid geometry).

Students must also have 3 course credits of calculus-based statistics.

Computer Science All students must have an introductory level computer science course which includes object oriented computer language, C++ and/or JAVA.
Program Requirements
Both master degrees in Modeling and Simulation require **30 hours of graduate credit**. The Master of Science in Modeling and Simulation requires six hours of thesis credit and 24 hours of course credit. The Master of Engineering in Modeling and Simulation requires 30 hours of course credit. In both programs, **15 hours of course credit in M&S foundation courses is required**.

Required Foundation Courses
- **MSIM 601** Introduction to Modeling and Simulation (3 credits)
- **ECE 505** Introduction to Discrete Event Simulation (3 credits)
- **ECE 605** Engineering Systems Modeling (3 credits)
- **MSIM 641** Visualization I (3 credits)
- **MSIM 651** Analysis I (3 credits)

Elective Courses
The remaining course credits, 9 credits in the Master of Science program and 15 credits in the Master of Engineering program are elective course credits. These courses are selected to achieve one or more program objectives or themes and must be approved by the Graduate Program Director. Such themes might include:

- military M&S
- medical M&S
- homeland security / defense
- serious gaming
- human computer interfacing
- distributed simulation
- human behavior modeling
- simulation interoperability
- or other themes reflecting M&S applications or sub-areas.
Doctoral Program in Modeling and Simulation

The Ph.D. in Engineering with a Concentration in Modeling and Simulation program focuses on developing the necessary skills and knowledge to enable the graduate to conduct and evaluate independent, original research in an area of modeling and simulation. The goal of the program is to prepare students for careers in teaching and research.

The doctoral program is housed within the College of Engineering and Technology and the degree is awarded through the college. The program, however, draws upon courses and faculty from ten different academic departments and three colleges of the university. The Graduate Program Director (GPD) administers the program.

Prerequisites or Required Foundation Knowledge
Applicants are expected to have completed courses in the following areas:

- Mathematics—differential / integral calculus; ordinary differential equations; probability and statistics, calculus-based statistics, and linear algebra
- Introductory level computer science course which includes object oriented computer language, C++ and/or JAVA
- Knowledge of core content curriculum of the Modeling and Simulation masters program

Program Requirements
The Ph.D. in Modeling and Simulation is offered in accordance with the general requirements for doctoral degrees as specified in the Requirements for Graduate Degrees Section of this Catalog. Specific program of study requirements for the concentration in modeling and simulation include the following:

- Completion of a minimum of 72 hours of graduate credits to include: a maximum of 24 credits of course work from the master degree; a minimum of 24 credits of course work beyond the master degree; and a minimum of 24 credits of dissertation research.
- Successful completion of a written diagnostic examination before completion of 9 credits of course work.
- Successful completion of a written and oral candidacy examination near the completion of the course work.
- Successful presentation of a dissertation research proposal at the beginning of the dissertation research.
The successful completion and public defense of a dissertation representing independent, original research worthy of publication in a peer-reviewed scholarly journal.

**Required Foundation Courses**
- MSIM 820  Continuous and Real-Time Simulation  (3 credits)
- MSIM 842  Visualization II  (3 credits)
- MSIM 830  Simulation Foundations  (3 credits)
- MSIM 852  Analysis II  (3 credits)

**Elective Courses**
Elective course work will be selected, in consultation with the Graduate Program Director, to fit a theme or concentration in simulation.

Such themes might include:
- military M&S
- medical M&S
- homeland security / defense
- serious gaming
- human computer interfacing
- distributed simulation
- human behavior modeling
- simulation interoperability
- or other themes reflecting M&S applications or sub-areas.

The doctoral plan of study should also comply with the following:
- Minimum of 12 credits that provide a basis for dissertation research
- No more than six credits from course work satisfying foundation knowledge requirements may be included in the program of study for elective credit
- At least three fifths (15 credits) of non-dissertation course work must be at the 800-level

**Transfer Credits**
A maximum of 12 semester hours of graduate credit may be transferred into a graduate degree program from another accredited institution, except in the case of an approved inter-institutional program.

Transfer credit will be given only for those courses that are **certified as being applicable** toward a comparable degree or certificate at the institution that offered the courses and that were completed with a grade of B or better.
No credit toward a graduate degree may be obtained by examination or correspondence study. A student who wishes to transfer credit earned prior to admission to Old Dominion University must request an evaluation of transfer credits by the GPD. The student must provide the catalog course description and syllabus. The GPD will review the course. If transferable, the GPD will complete Graduate Form 1.

Following admission to the degree program, the student should obtain written permission from the GPD before registering for a course at another institution with the intent of transferring the credit for that course into a graduate degree program at Old Dominion University. In no case is a transfer of credit final without the signed approval of the GPD on the Evaluation of Transfer Credits form (Graduate Form 1). More information on transfer credits is included in the University Catalog.

Selection of Advisor
Upon entering the Ph.D. degree program, either as a provisional or regular student, the student must begin the process of selecting an Advisor. The Advisor should be chosen with due consideration given to the student's wishes, area(s) of research interest, as well as faculty workload and preference. Advisors are sometimes appointed by the GPD.

Submission of Formal Study Plan
Based on the results of the Diagnostic Examination (see page 9), a Formal Study Plan will be developed with the GPD and the student's Advisor.

This plan must be completed before the end of the semester during which the student completes nine semester credit hours and before registration for subsequent semesters. The Formal Study Plan will include no less than 24-post Masters-level semester credit hours of course work. Care should be taken in the preparation of this plan since its completion is a requirement for the award of the degree. Further information on the content of the plan may be found in the University Catalog.
REQUIREMENTS AND EXAMINATIONS

Time Limits and Residency Requirements
The Masters degree can vary in the amount of time it takes to complete the program. Typically, 2 ½ to 3 years (5 to 6 full-time semesters) are needed to complete the course work and thesis.

Masters students must complete their full-time residency for one semester. This is achieved by registering for a minimum of six credits for one semester. The Masters program must be completed within a six-year period.

The Ph.D. program varies in the amount of time it takes to complete it. Typically, 2 ½ to 3 years (5 to 6 full-time semesters) are needed to complete the course work (24 hours are required). After the Candidacy Examination (see page 10), all doctoral students are required to register each semester until graduation for at least one credit of continuance registration.

The University Catalog states the following regarding Residency Requirements:

An essential feature of the doctoral study is the provision of total concentration on the field of study for significant periods of time. Students who wish to pursue a part of their doctoral study on a part-time basis may do so, but all doctoral students shall spend at least two semesters engaged in full-time graduate study.

The doctoral degree must be completed with eight calendar years from the beginning of the initial course following admission to the program.

Writing Proficiency Examination
Before the completion of 12 hours of graduate course work, the student must pass the "Writing Proficiency Examination" administered by the University's Writing Center. http://studentservices.odu.edu/writingcenter/

This examination is offered at various dates during each semester. This is the same as the "Exit Examination of Writing Proficiency," which is taken by all undergraduate students of ODU. Students who have passed this exam as an undergraduate or as a Masters student need not retake it.

Graduate students who fail this examination are required to attend and successfully complete the five-week course offered by the Writing Center. Students who have not completed this examination will not be certified for graduation.

Ph.D. Diagnostic Exam
After being admitted to work toward a Ph.D. in Engineering with a Concentration in Modeling and Simulation, students are required to take a Diagnostic Examination. This examination is designed to assess the student's ability to successfully pursue the Ph.D. with a Concentration in Modeling and Simulation and to facilitate the development of the student's Formal Study Plan. Students normally take the Diagnostic Examination
at its first offering, immediately prior to the completion of 9 credit hours in the doctoral program.

The exam will be administered by the Graduate Program Committee two times a year at scheduled dates and times. These exams will be conducted during October and March. No exams will be offered at any other times.

Ph.D. students must take the examination and pass it no later than the third semester of study of their program. This is a continuance requirement and will affect their financial support.

The M&S faculty will grade the examination and the Graduate Program Committee will evaluate the results of the examination. Based on the results of the examination, specific courses might be required to address inadequacies or weaknesses.

The exam has seven questions. Students select and answer six (of the seven) questions to complete the exam. The questions will come from these technical groups:

- Mathematics—differential / integral calculus; ordinary differential equations; and linear algebra
- Calculus-based probability and statistics
- Discrete Event Simulation
- Modeling
- Computer Science (data structures, object oriented computer language, C++ and/or JAVA)
- Analysis
- Visualization

The exam is three hours in duration and it is closed book / closed notes.

The results of the examination will be reported using Graduate Form 10. In the event the student does not pass this examination it may be repeated once at the next scheduled offering. Failure to pass the examination on the second trial will result in termination from the Ph.D. program.

**Ph.D. Candidacy Examination**

Before or during the last semester of coursework the student must arrange to take the Ph.D. Candidacy Examination through his / her Advisor. In order to be eligible to take this examination the student must have achieved a GPA of at least 3.00 on all course work completed. This request is transmitted using Graduate Form 15. This examination must be taken no later than three months after completion of all course work contained in the student's Formal Study Plan.

The Candidacy Examination consists of a written and an oral section and the student must pass both sections. All parts of the Candidacy Examination are normally completed within two weeks. The written examination will be given first.
The **written examination** typically consists of a review of key papers and/or issues in the student's general research area. The Dissertation Director will provide these papers. The student should be able to explain how these papers (and any other papers entered into the written response) are applicable to his / her research. Upon completion of the written portion, the student will submit his / her essay directly to the Dissertation Director, who, in turn, will share the student's response with the members of the Dissertation Committee.

The **oral examination** consists of a student presentation of his / her written examination to the Dissertation Committee, defending the understanding of the work done and answering any questions in the general subject area that the committee feels necessary to evaluate the student's abilities in performing independent research. Typically, the student presents his / her responses to the papers for 30-40 minutes, followed by a discussion period.

Two or more negative votes from the Dissertation Committee on either part constitute a failure for that section of the candidacy examination. The student has only two opportunities to pass the written portion of the examination. A failed written part must be retaken after six months but within one year. The oral part is taken only after passing the written part. The student also has two opportunities to pass the oral section, but a failed oral portion must be retaken within one month of the first attempt. If the written part is passed on the first try, it need not be repeated in the event of failing the oral part. No part of the Candidacy Examination can be passed conditionally.

The successful completion of both the written and oral parts of this examination is required before progress toward a Ph.D. degree can be continued. The Dissertation Committee must report the outcome of the Candidacy Examination on **Graduate Form 10**. This report will go through the GPD and the Dean of the College of Engineering and Technology.
RESEARCH AND WRITING

Thesis and Dissertation Committees

Forming a Thesis Committee
After the student has completed the formal coursework, the GPD will assist the student in selecting a Thesis Committee.

In general, this committee consists of at least three faculty members from at least two academic departments. Typically, at least one member of the committee is from outside the university and he or she is approved by the GPD.

A majority of the committee must be members of the ODU Modeling and Simulation faculty. The committee's composition will reflect the topic of the thesis, and the committee chairman is the student's thesis Advisor. The committee appointment is accomplished using Graduate Form 20, which requires the signatures of all proposed committee members. This form will need to be submitted to the GPD and Associate Dean for Research and Graduate Studies for approval.

Forming a Dissertation Committee
After the student has passed the Diagnostic Examination and before formal coursework has been completed, the GPD and the student's Advisor will assist the student in selecting a Dissertation Committee.

In general, this committee consists of at least three faculty members from at least two academic departments. Typically, at least one member of the committee is from outside the university and he or she is approved by the GPD.

A majority of the committee must be members of the ODU Modeling and Simulation faculty. The committee's composition will reflect the topic of the dissertation, and the committee chairman is the student's Dissertation Advisor. The committee appointment is accomplished using Graduate Form 16, which requires the signatures of all proposed committee members. This form will need to be submitted to the GPD and Associate Dean for Research and Graduate Studies for approval.
From Thesis to Graduation

Master of Science candidates must take six credits of thesis research in the home department of their thesis advisor or six credits of MSIM 699.

After the student has convened his Thesis Advisory Committee, he must complete Graduate Form 20 with their signatures. At this time the student is also required to meet with the GPD to review that all coursework has been completed and that the thesis is has been approved by the committee.

As the work on the thesis draws to a conclusion, students will need to complete the Application for Graduation--Graduate Form 4 for processing by the Office of the Registrar.

A formal application for the expected diploma must be made in the Office of the University Registrar prior to the expected date of graduation:

<table>
<thead>
<tr>
<th>Month</th>
<th>All Work to be completed:</th>
<th>Application to be submitted by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>December</td>
<td></td>
<td>Third Friday in July</td>
</tr>
<tr>
<td>May</td>
<td></td>
<td>Second Friday in November</td>
</tr>
<tr>
<td>August</td>
<td></td>
<td>Second Friday in April</td>
</tr>
</tbody>
</table>

Upon completion of the thesis the student must prepare it for submission to the Associate Dean. Students will need to complete any revisions specified by College Reader, reprint the thesis and submit it again to the Committee Chair who will ensure the requested formatting revisions were completed. The Committee Chair will then submit the revised thesis to the Associate Dean who will also ensure the requested formatting revisions were completed.

One copy in final form should be submitted to the Dean's Office at least two weeks prior to the last day of classes in the semester in which graduation is planned. This copy should be accompanied by a Thesis/Dissertation Acceptance and Processing, Graduate Form 6, signed by all committee members as well as the GPD.

Within three workdays after submission of the final copy to the Dean's Office the student should check with this office to determine if the thesis has been accepted. After acceptance the student must make additional copies and submit them to the Office of Student Records as prescribed by the "Guide for Preparation of Theses and Dissertations." The student must accompany these copies with Graduate Form 11.
From Dissertation to Graduation

Dissertation Proposal
Once the Dissertation Committee has been formed and the Candidacy Examination passed, the student must present a proposal for a dissertation to the Dissertation Committee Chairman (the Advisor). This formal dissertation proposal shall include an outline of the proposed research subject, methods to be employed, and research objectives. The student must defend this proposal to and obtain approval from the Dissertation Committee and submit it through the GPD and the Dean on Graduate Form 10 and BCET Graduate Form 2 for final acceptance.

Ph.D. Candidate
The student is formally admitted to candidacy by the GPD and the Dean of the College of Engineering and Technology only after

1) successful completion of the coursework listed in the Formal Study Plan
2) acceptance of the dissertation proposal by the Dissertation Committee
3) recommendation for candidacy by the Dissertation Committee

The student must be admitted to candidacy at least 12 months before the anticipated award of the degree.

Dissertation Research and Preparation
The student performs his / her dissertation research and prepares the dissertation under the guidance of the Advisor and the Dissertation Committee. Once the proposal has been approved the student can proceed with the actual research. Remember, dissertations usually draw upon primary source materials rather than the secondary literature. The student’s research should also demonstrate the achievement of a certain scholarly and professional independence.

Students are required to be registered for at least one dissertation credit during the entire time it takes to complete and submit your dissertation. These credits will be recorded as "incomplete" grades until the dissertation is filed with the University Registrar.

It is the student’s responsibility to maintain regular contact with all committee members and keep them informed of the status of the research. Committee members should be given adequate time to review dissertation chapters and provide feedback.

For details on the mechanics of the paper and the preparation of the dissertation see the "Guide for Preparation of Theses and Dissertations" available from the Office of the University Registrar.
Application for Graduation
A formal application for the expected diploma must be made in the Office of the University Registrar prior to the expected date of graduation. The form for this application, Graduate Form 4, meets the following schedule:

Month All Work to be completed: Application to be submitted by:

- December
- May
- August

Third Friday in July
Second Friday in November
Second Friday in April

Dissertation Defense
The student should plan to orally defend the dissertation no less than six weeks prior to the date of the expected graduation. Printed copies of the completed dissertation must be submitted to the Dissertation Advisor and each member of the Dissertation Committee at least two weeks prior to the scheduled oral defense. It is required that the student obtains informal approval from the Advisor on the written dissertation prior to the submission to the committee.

Once the committee has agreed that a defense can be scheduled, the student must complete the "Request for Permission to Take Ph.D. Dissertation Defense" (Graduate Form 15) and the BCET Announcement of the Ph.D. Oral Dissertation Defense (BCET Graduate Form 1). These forms must be signed by all committee members, the GPD, and the College Dean. The GPD will publicize the dissertation defense schedule and invite the student body and faculty to attend.

The Dissertation Advisor will conduct the defense of the dissertation. Success or failure in the oral defense will be determined by a majority of the Dissertation Committee in closed session immediately following the defense. The Dissertation Advisor will inform the student of the results immediately and submit Graduate Form 10 through the GPD. In the event of failure, the Dissertation Committee may recommend that the candidate be dropped or be allowed a re-examination at least three months after the date of the first examination.

Dissertation Submission
Upon successful defense of the dissertation the student must prepare it for submission for publication. The GPD will examine the dissertation. If it meets all required standards, it will then be sent to the Associate Dean for Graduate Studies along with a copy of "Results of Ph.D. Examination or Requirements" (Graduate Form 10). It must reach the Associate Dean by the following deadlines: October for December graduation, March for May graduation, or June for August graduation.

The Associate Dean will forward the dissertation to the College Reader, Katie Rainey, who will examine the format and prepare a list of needed revisions.

Students will need to complete any revisions specified by College Reader, reprint the dissertation and submit it again to the Committee Chair who will ensure the requested
formatting revisions were completed. The Committee Chair will then submit the revised
dissertation to the Associate Dean who will also ensure the requested formatting
revisions were completed

One copy in final form should be submitted to the Dean's Office at least two weeks prior
to the last day of classes in the semester in which graduation is planned. This copy
should be accompanied by a Thesis/Dissertation Acceptance and Processing form
(Graduate Form 6) signed by all committee members as well as the GPD.

Within three workdays after submission of the final copy to the Dean's Office the student
should check with this office to determine if the dissertation has been accepted. After
acceptance the student must make additional copies and submit them to the Office of
Student Records as prescribed by the "Guide for Preparation of Theses and
Dissertations." The student must accompany these copies with Graduate Form 11.

If corrections must be made to the dissertation, as determined by the Dean's Office, the
student has until the last day of classes of the semester in which graduation is planned
to have them made. If this deadline cannot be met the graduation will be delayed at
least one semester.

Final Semester Registration
A one-hour of continuing registration is required for all graduate students to maintain
active status during the final semester prior to graduation, if the student is not formally
enrolled in coursework and has not completed all academic requirements for the
degree.

Submission of Dissertation to the College
Once the Associate Dean has approved the final version of the dissertation, students
will need to print one copy on 100% bond paper and have all of the committee members
sign the title page.

Students will also need to complete the "Dissertation Acceptance and Processing Form"
(Graduate Form 6), which requires the signatures of all committee members.
Students will then be ready to submit your dissertation (printed on 100 % bond paper
with committee member signatures on title page) to the Dean’s Office.

Students must also include the "Dissertation Acceptance and Processing Form"
(Graduate Form 6). The Dean of the College will then examine your dissertation. If it
meets all of the required standards of the college, he / she will sign the "Dissertation
Acceptance and Processing Form" (Graduate Form 6).

Students will need to retrieve your dissertation from the Dean’s Office along with the
"Dissertation Acceptance and Processing Form" (Graduate Form 6), now with the
Dean’s Signature.

The GPD will put a copy of the "Dissertation Acceptance and Processing Form"
(Graduate Form 6) in the student file.
Submission of Dissertation to the University
The deadline for submitting your dissertation to the university is the last day of classes of the semester in which the degree will be taken.

Students will need to take the following items to the Registrar’s Office:

1. The original copy of your dissertation on 100% bond paper with the title page containing the signatures of all committee members

2. Four additional copies of your dissertation

3. The following forms
   A. "Results of Ph.D. Candidacy Exam" (obtain from student file)
   B. "Results of Ph.D. Examination or Requirements" (Form 10)
   C. "Dissertation Acceptance and Processing Form" (Form 6)
   D. "Dissertation Delivery Form" (Form 11)

Students will also need to pay the following fees at the Finance Office and retain your receipts:

   A. Binding Fee
   B. Microfilm Fee
   C. Copyright Fee (optional)

Students will then need to submit to the Registrar all of the items listed above (1, 2, 3 A-D) and the binding fee receipt. The completed dissertation must be submitted to the University within eight years from the date the student first began coursework in the doctoral program.

Graduation Commencement Ceremony
Students should confirm with your Committee Chair whether you intend to participate in the graduation ceremony. Students are only eligible to participate in the graduation ceremony if your dissertation has been submitted to the Registrar's Office. The Committee Chair will then notify the Dean's Office.

The Committee Chair will change all of the "II" grades on your transcript to passing grades. Once the Registrar certifies that the student has completed all of the requirements for the doctorate, the diploma will be mailed to the student's home address.
WORKSHEETS AND FORMS

Advising Worksheet / Masters Formal Plan of Study

Name: ______________________  ______________________
Address: ____________________________________________
____________________________________________________________________
Phone: _____________________    Cell: ___________________
E-mail: _____________________  Date Admitted: _____________
Student ID: ________________   Program: ME    MS

Degrees: BS _________________
        MS _________________
        Other _________________

Prerequisites: ___________________________________________

Plan of Study

Concentration Area: _______________________________________

Foundation:
MSIM 601 _________________
MSIM 505 _________________
MSIM 605 _________________
MSIM 641 _________________
MSIM 651 _________________
Electives:


Thesis (if applicable)


Notes:


Student Signature


date
The Masters Student Timeline
WORKSHEETS AND FORMS

Advising Worksheet / Ph.D. Formal Plan of Study

Name: ________________________ ____________________________

Address: __________________________________________________

________________________________________________________________

Phone: _____________________    Cell: _____________________

E-mail: _____________________ Date Admitted: ________________

Student ID: ________________

Degrees:  BS __________________

            MS ________________

            Other ________________

Prerequisites: _____________________________________________

Plan of Study

Concentration Area: __________________________________________

Foundation:

    MSIM 820 ________________

    MSIM 830 ________________

    MSIM 842 ________________

    MSIM 852 ________________

Electives:
Dissertation (if applicable)

____________________________________________________

Notes:

____________________________________________________

____________________________________________________

Student Signature

____________________________________________________   _______________  date
The Ph.D. Student Timeline
WORKSHEETS AND FORMS