



Eastern Michigan University

Program Handbook: Masters of Science in Psychology— EXPERIMENTAL

Psychology Department

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Contents

INTRODUCTION	4
Mission Statement	4
Program Faculty	5
Other Department Personnel	5
Advising	5
Placement of Graduates from EMU's Experimental Master's Program	5
Graduate School Handbook	6
PROGRAM REQUIREMENTS	7
Program Overview	7
Required Courses	7
Mandatory Thesis	7
REGISTRATION	11
Transfer Credits	11
Academic Load	11
Example Full-Time Course Sequence	12
Recommended Credit Hours for Students	12
Overrides & Wait Lists	12
Auditing Courses	12
STUDENT PERFORMANCE & CONDUCT	13
Evaluation of Students	13
Dismissal & Disciplinary Action	13
Academic Deficiencies Resulting in Disciplinary Action or Dismissal	13
Non-Academic Behavior Resulting in Disciplinary Action or Dismissal	14
Academic Misconduct (plagiarism, falsifying data)	14
Grade Grievance Policy	14
Appeal Process	15
Graduate School Requirements	15
Time to Degree	15
Incompletes	15
Withdrawal	16
Stop-Out Policy	16
Academic Probation	16

Continuous Enrollment	16
Program Requirements beyond Graduate School Requirements	17
GA/TA OPPORTUNITIES	17
“13 Rules of Success: A message for students” (Hayes)	18

INTRODUCTION

This handbook provides current and prospective students with information on the Experimental MS program. This handbook covers the program's mission, program requirements, registration procedures, the evaluation of student performance and conduct, requirements of the graduate school, GA/TA opportunities, general advice for obtaining a successful graduate school experience, and a self-evaluation tool for monitoring student progress through the competencies the program aims to foster. Where relevant there are hyperlinks to resources beyond this document such as the EMU Graduate School, and the American Psychological Association Ethics Code.

Mission Statement

The mission of the Experimental program is to produce scientists that are well prepared to use the experimental and philosophical foundations of research methods and psychological inquiry to improve behavior and human health and disease. The program holds these foundations to be essential for a rich career and an integrated approach to lifelong learning and professional development beyond graduation. The program is designed to be a mentor-based model of learning, where the student will gain necessary laboratory training to be competitive applicants for research focused occupations and/or Ph.D. programs, such as Experimental Psychology, Neuroscience, Social Psychology, Statistics, Learning, and Cognition. The concepts and principles of experimental methodology serve as the foundation for the scientific study of psychology and related fields. The physiological, statistical, and theoretical/discipline specific courses (e.g., Social Psychology or neuroscience related course) in the Experimental Program curriculum train students in research and ensure students understand the scientific philosophies behind the methods. This enables these students to use that science to innovate and creatively use these methods in varied practical domains.

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Advising

As the experimental MS program uses a mentor model, all students admitted to the program will be assigned a matched mentor. Your mentor will help you make decisions about course work, career goals, research opportunities, professional issues, and your program of study. As you develop in the program, you may find that you have interests in common with a different member of the experimental faculty and may choose to change mentors. You may do so at any time. You should take care to discuss the change with your assigned mentor first, and then the Experimental Program Coordinator. This helps ensure that you receive proper advising. In addition, you may opt to work on a thesis project under the supervision any mentor. You should make regular contact with and consult your mentor about decisions affecting your program of study.

Placement of Graduates from EMU's Experimental Master's Program

Doctoral Programs

Graduates have gone on to doctoral programs in neuroscience/biomedical sciences, applied behavior analysis, and clinical psychology, including the doctoral program in clinical psychology in our department.

Graduate School Handbook

The [EMU Graduate School Handbook](#) has many policies beyond those covered in the program handbook. Updates to the Graduate School Handbook are implemented immediately unless otherwise noted in that document.

PROGRAM REQUIREMENTS

Program Overview

Because Experimental Psychology is a broad field, covering topics from basic science (e.g. physiological/neuroscience) to clinical methodology, the program is based on a mentor model, where the student receives intensive-individualized instruction from their graduate advisor. Students need to complete 30hrs of credit for their degree. Six of these hours are thesis credits.

Required Courses

1. Core courses (12hrs)

PSY 600 Psychological Statistics I (3hrs)

PSY 605 Research Design (3hrs)

PSY 692 Thesis (6hrs)

2. Electives (12-18 credits)

Students take a minimum of 12 elective credits. With approval, a maximum of 6 credits can be taken from other departments or transferred from other institutions.

3. Thesis Credits—Students must complete and defend their Master’s Thesis in order to graduate with a Master’s in Experimental Psychology. Students must take a minimum of 6 thesis credits, and Once started, must continue Thesis enrollment until completion of the Thesis Defense (see Mandatory Thesis Section below)

Mandatory Thesis

Completion of the thesis is mandatory for Experimental students. A thesis is an essential aspect of preparing students for a career in experimental psychology. This includes demonstrating key skills for working in industry or other applied settings. Completing a thesis is a concrete demonstration of your commitment to your field to prospective employers and doctoral programs. It is expected that the thesis will be a joint effort developed by the student, the Chair of the student’s thesis committee and the members of the thesis committee. The student should expect that experimentation takes considerable time and effort. Students who do not start the thesis process early are at risk for needing more than five semesters to complete their degree.

Listed below are the procedures which should expedite the successful completion of the thesis.

Generating Thesis Ideas

1. Meet with various faculty who specialize in areas in which you might like to work and ask if it might be possible for you to do research with these faculty.
2. Methods of generating thesis questions include keeping a journal of potential ideas as you read journal articles, discussing and critiquing various studies, making observations of behavior problems and brainstorming about methods that might be applied. It may be possible to contract with a faculty member to receive independent study credit for development of the thesis up through the proposal stage.
3. Discuss research ideas with faculty until it becomes clear to you that you will or will not be able to agree on a thesis question.
4. If you agree on a thesis question, ask the faculty member if he/she will serve as your thesis advisor, and ask for suggestions as to who might serve on your thesis committee.

Writing the Proposal

5. With your advisor's assistance, write up a draft of your thesis proposal which includes an introduction, method section (subject, apparatus, procedure, research design, measurement, and data recording techniques), references, and appendices (including data recording sheets, rapid assessment instruments, draft of informed consent, and Human Subjects Review Application).
6. Submit each draft of your proposal to the thesis advisor for comments and revision. Typically students go through several revisions based on ongoing input from the thesis advisor before a draft is considered acceptable by the thesis advisor. It is sole judgment of the thesis advisor to determine whether a proposal is adequate, ethical and feasible.
7. Early in the process, discuss with your thesis advisor the faculty you would like to serve on your committee. Three members must be faculty in the EMU Psychology Department. You can add a fourth member from outside the department or university if inclusion of this person makes sense for your project. All thesis proposals must include an appendix that specifies summer semester thesis workload expectations for the student. Thesis projects can have different needs. Some can be suspended for the duration of the summer while others, due to either the nature of the study or the role of the study in an overall research program, require continuous progress over the summer. If the project does not require summer progress, then the appendix will simply state:

"This project does not require that the student make continuous progress over the summer and there is no requirement for continuous enrollment in thesis credits summer semesters. In the absence of continuous enrollment, the student is reminded that the EMU graduate school will only accept graduate credits that have been completed within six years of the date of graduation. Courses older than this will need to be repeated."

If the project does require summer progress, then this appendix shall state:

"This project requires that the student make continuous progress over the summer semester(s) and requires continuous enrollment via additional thesis credits over the summer(s).
[Add text describing summer workload expectations and thesis credit enrollment required (1, 2, or 3 credits) as appropriate for the project]
Failure to enroll in thesis credits will result in the project being turned over to the mentor and the thesis being terminated. Thesis credits enrolled in to date will be converted to Independent Study credits and grades will be assigned consistent with the quantity and quality of the work completed as evaluated by the thesis mentor."

This appendix regarding the statement of summer workload is required even if the mentor and student anticipate that the project will be complete/defended prior to the summer semester.
8. Once your advisor agrees that you have a good working draft, confirm with him/her two other persons to serve on your thesis committee. Ask these potential committee members whether or not they will serve, which is up to their discretion. The committee approval [form](#) must be completed and signed by the program coordinator and department chair prior to the proposal defense.

The Proposal Meeting

9. Once the proposal is ready for distribution, schedule a meeting for approximately two weeks later in which you and your committee (advisor and two other members) can discuss your proposal. The proposal meeting consists of an introduction by your advisor, a 30-minute presentation of your proposal (with visuals), and 45 minutes for questions, discussion and suggestions for improvement of the proposal. Two outcomes of the proposal meeting are possible.
 - a. The proposal is deemed satisfactory and the candidate may proceed.

- b. The proposal is not satisfactory. If the proposal is not satisfactory (i.e., needs to be revised) then the committee provides a detailed description of these deficiencies and the actions needed to address these deficiencies. In some cases, the deficiencies may be small or easily addressed via text revisions to the proposal and will not require another oral proposal defense. In other cases, the revisions will be substantial enough for the committee to request another full review of an updated proposal document and an oral defense. Another oral defense is required if at least one member of the committee requests this.

(Note: It is up to the thesis committee to give the final determination as to whether a proposal is adequate, ethical and feasible). All revisions required by the committee must be completed to the committee's satisfaction prior to members signing the proposal approval. The signed form is then forwarded to the Master's Program Coordinator or Department Head for a signature before the department forwards the approval to the graduate school.

Human Subjects Review

10. Your advisor will assist you in submitting the thesis proposal and application which you have prepared together and submitted through the Institutional Review Board website.

Animal Subjects Review

11. Your advisor will assist you in submitting the thesis proposal and application which you have prepared together and submitted through the Institutional Animal Care and Usage Committee (IACUC) website <https://www.emich.edu/research/compliance/animal-care/index.php>.

Running Your Study

12. You may only begin the process of data collection and data analysis after approval of your thesis proposal by your thesis committee and the IRB.

Academic Credit for Thesis

You may only register for PSY 692 (Thesis) after you have obtained approval of your thesis proposal by your thesis committee. In some cases, it may be advisable to continue to register for independent study credit until it is certain that the thesis will be finished. If the thesis is not completed, any thesis credits will remain as incomplete. To document the thesis on your transcript you must register for a minimum of 6 thesis credits.

The Oral Defense

13. You will receive credit for PSY 692 once you have developed a manuscript considered acceptable by your thesis committee, and have orally defended your thesis successfully (i.e., both the Thesis Oral Defense Approval and Thesis Document Approval [forms](#) have been signed by the committee). Oral examinations of theses are open to all faculty and students and are recommended for those students who are planning to do a thesis themselves. However, only the thesis committee determines the adequacy of the defense. Notice of the upcoming oral thesis defense must be posted in the department two weeks in advance (notify the department senior secretary) and copies of the completed thesis should be made available to interested parties prior to the defense. An oral defense is a formal presentation lasting about 30 minutes, complete with visual aids, which should consist of:

- Review of key articles from the literature
- Purpose of the study
- Overview of methods
- Key results

- Discussion of results including strengths and limitations

in addition to a question and answer period and time for the committee to deliberate on the quality of the materials. The question and answer period may vary substantially from project to project but may range from 15 to 60+ minutes. Thesis defense meetings are scheduled for two hours to allow for adequate time for the defense process.

14. Approval of your thesis is indicated by the committee member's signatures on the Oral Defense of the Master's Thesis Approval Form. Two outcomes are possible on this form
 - a. The defense is deemed satisfactory and the candidate may take the steps necessary to secure final approval of the thesis document.
 - b. The defense is not satisfactory. If the defense is not satisfactory then the committee provides a detailed description of these deficiencies and the actions needed to address these deficiencies. In some cases, the deficiencies may be small or easily addressed via text revisions to the proposal and will not require another oral defense. In other cases, the revisions will be substantial enough for the committee to request another full review of the document and an oral defense. Another oral defense is required if at least one member of the committee requests this.

All revisions required by the committee must be completed to the committee's satisfaction prior to members signing the Oral Defense of the Master's Thesis Approval Form. The signed form is then forwarded to the Master's Program Coordinator or Department Head for a signature before the department forwards the approval to the graduate school. The thesis chair will take detailed notes regarding any changes required by the committee before the thesis document will be approved by the committee.

Thesis Document Approval

15. The thesis completion process IS NOT COMPLETE until the Master's Thesis Document Approval [Form](#) has been signed by the committee, the program coordinator, the department head, and the graduate school. Members of the thesis committee do not sign the Master's Thesis Document Approval Form until the document has been revised to the satisfaction of the committee. The signed form is then forwarded to the Master's Program Coordinator and Department Head for a signature before the department forwards the approval to the graduate school. Students need to be aware that the graduate school will not sign off on the document until the document meets all of the [requirements](#) of the graduate school which includes formatting and other details that can be quite time consuming. Review these requirements early in the thesis writing process so you will not need to revise the document at the very end of the process. Failure to complete these requirements can delay your graduation date.

Miscellaneous

16. In the event that there is a major change in the thesis or it is abandoned altogether, the student must inform the Experimental Program Coordinator and the Graduate School so that specific thesis project can be documented as closed. A new thesis proposal will be required if the student still wishes to do a thesis. This documentation is also needed to address any "in progress" Thesis credits that may be outstanding that may negatively impact a graduation audit.

REGISTRATION

Graduate students must register online for main campus and off-campus courses using their my.emich.edu accounts. Registration will be blocked if students have past due accounts with the University. Instructions for registration are provided at:

<http://www.emich.edu/registrar/registration/index.php>

Tuition is assessed for all credit hours for which a student is registered. Tuition rates per credit hour are subject to review at each June Board of Regents meeting and may increase. The most current information regarding tuition and fees can be found online at:

<https://www.emich.edu/sbs/basics/calculator.php>

Transfer Credits

Graduate credit may be accepted from other accredited institutions to be used on a graduate degree program at EMU. Acceptable transfer credit(s) will be determined by the department, subject to the approval of the department head/school director and the Office of Records and Registration.

Transfer credit must meet the following requirements:

- The course content must be applicable to the Experimental Program
- Receive a grade of B or higher (grades of “pass,” “satisfactory,” or “credit” cannot be transferred unless noted on the transcript key as equivalent to a B or better grade)
- The credit cannot be out-of-date per the degree time limitation (all credits must be earned within six years of a student’s graduation date)
- The course must be approved by the Experimental Program Coordinator and approved by Office of Records and Registration
- Course credit must be documented as graduate credit on an official graduate transcript from an accredited institution
- The student must be in good standing at their previous university for transfer credits to be considered

The required request forms can be found at: http://www.emich.edu/graduate/policies/trans_credit.php

Academic Load

The overwhelming majority of students in the program attend full time and graduate within 3 years.

Example Full-Time Course Sequence

Year	Course	Credits
Fall	<i>PSY 600 Psychological Statistics</i>	3
Year 1	<i>PSY Elective</i>	3
	<i>PSY Elective</i>	3
Winter	<i>PSY 605 Research Design</i>	3
Year 1	<i>PSY Elective</i>	3
	<i>PSY Elective</i>	3
Summer 1st Year	<i>Start Thesis data collection</i>	
Fall	<i>Thesis</i>	3
2nd Year	<i>PSY Elective</i>	3
Winter	<i>Thesis</i>	3
2nd Year	<i>PSY Elective</i>	3

Recommended Credit Hours for Students

As a rough guide, you can estimate that reading and preparation for each core course requires at least 9 hours per week (3-4 hours per credit hour). In addition, pre-prepracticum corequisites require an estimated 3-4 hours per week for preparation and implementation. Guidelines for the number of courses you should take, given the number of hours you work, are provided below. These hours assume a maximum commitment to work and school of 70 hours per week. If you have a long commute, consider adding that time to your projected work hours when determining what level of workload is reasonable for you.

Hours working per week	Credit hours
20 hours or less	11-12
20-30 hours	8-10
30-40 hours	6-8
40+ hours	4-5

Overrides & Wait Lists

Students are encouraged to register at the opening of registration to secure their best schedule. All classes are capped to ensure small class size and best learning. Overrides are not routinely given and in some cases are not practical given the classroom space used. Students are encouraged to select the "waitlist" option for desired courses while still registering for an alternative section when their first choice is not available. The program coordinator will work with you to direct you to the schedule of the sequence of courses you will need to meet program requirements.

Auditing Courses

Required courses for the program cannot be audited. Electives may be audited provided the student submits a Request to Audit a Course form by the university deadline. An audited course does not count toward your degree.

STUDENT PERFORMANCE & CONDUCT

Evaluation of Students

Students will be evaluated at a minimum at the conclusion of each semester by all faculty having regular contact with the student (e.g., courses, research, or other settings) using the following domains and ratings.

	No Concerns	Concerns	Significant Concerns	Not Observed
Written Expression				
Oral Expression				
Factual & Conceptual Knowledge				
Procedural Knowledge & Self-Evaluation Ability				
Critical/Abstract Thinking Skills & Reasoning,				
Professionalism, Interpersonal Skills, & Ethics				

Faculty raters will also have the opportunity to provide qualitative comments for each of the evaluated domains. If across all evaluators a particular domain has not been observed for a specific evaluation period, a student will be notified that this domain should be treated as involving some “concerns” as the faculty have not had the opportunity to observe the student in relation to this domain and these domains should be observable in one or more settings each semester.

Students are notified of their evaluation within 1 week of the program meeting in which the evaluation is discussed (program faculty meetings are the first Thursdays of the month during the regular academic year). Program faculty may meet ad hoc, and virtually, to address emergent student evaluation needs. In all cases, a quorum of 4 faculty is sufficient for the evaluation summary to move forward.

The outcome of each evaluation will be one of the following:

- Satisfactory progress
- Generally satisfactory progress with some concerns noted that will not require a remediation plan or dismissal if the student adequately addresses these concerns.
- Less than satisfactory progress: this outcome may be accompanied by a remediation plan or dismissal

Note: Students can have a passing grade/GPA and still be dismissed from the program on the basis of this evaluation process. Courses have educational objectives that are separate from this evaluation process yet they serve as the basis for observing student performance and determining whether student performance in these evaluation domains meet program expectations.

Dismissal & Disciplinary Action

Academic Deficiencies Resulting in Disciplinary Action or Dismissal

A grade of “B” or better is required for any courses to count toward graduation for the program. A student will not be allowed to repeat a course more than once. If a student fails to pass a course with a “B” or better on the second attempt, they will be immediately dismissed from the program. If a student fails to pass a third course on their first attempt (even if they passed two other courses on their second attempt) the student will be immediately dismissed from the program.

Non-Academic Behavior Resulting in Disciplinary Action or Dismissal

The University and the Psychology Department expect conduct of all students that is consistent with the law, all relevant University policies and rules, including the [Code of Community Responsibility](#), the American Psychological Association [Ethical Principles of Psychologists and Code of Conduct](#), and the Behavior Analyst Certification Board [Professional and Ethical Compliance Code](#). Importantly, these ethical codes also cover a range of actions relevant to working on research projects at EMU. Single episode violations or patterns of recurring behavior could result in termination as determined by the program faculty and/or by the Dean of the Graduate School.

Academic Misconduct (plagiarism, falsifying data)

Be honest. As a graduate student you are expected to have high levels of integrity. When in doubt, ask for clarification and give yourself time to take action before an assignment is due. Instances of dishonesty will be reported to Office of Student Conduct and Community Standards (OSCCS), the Experimental Program Coordinator, and the Director of the Graduate School. For more info on academic dishonesty see the [EMU Student Conduct Code](#).

Any form of academic dishonesty may result in an “E” in the course and a referral for disciplinary action. This will be strictly enforced.

NOTE: All forms of plagiarism are not acceptable. This section clarifies the programs stance on two specific types of plagiarism students may not be familiar with: patchworking and daisy-chaining. Patchworking is defined as taking sentences from a number of sources, patching them together with minor alterations in wording and providing a summary citation (rather than direct quote). This process becomes a “patchwork” when such minor alterations and summary quotes are used in series without any original synthesis or contribution by the student author. Daisy-chaining is the direct quotation version of patchworking where sentence after sentence represents a direct quote from references with little contribution or synthesis by the student. Both patchworking and daisy-chaining will be treated as plagiarism in this program. As graduate students you are expected to be at a higher level of development in your academic writing than undergraduates. Thus, while patchworking may be considered a “grey area” of plagiarism for undergraduate writing, it is unacceptable at the graduate level. Patchworking and daisy-chaining represent failures to engage with and comprehend material at the graduate level and may be treated as academic misconduct. It is the student’s responsibility to complete written assignments early enough to obtain feedback from the [University Writing Center](#) or other feedback mechanisms made available by an instructor.

Grade Grievance Policy

EMU’s [Grade Grievance Procedure](#) provides each student with the opportunity to appeal formally a final grade in a course because they believe that the grade has been awarded capriciously or unfairly. Capricious or unfair-grading may include, but is not limited to, the assignment of a course grade to a student:

1. On some basis other than relevant performance in the course;
2. By resorting to standards different from those which were applied to other students in that course;
3. By an unreasonable and/or unannounced substantial departure from the instructor’s previously articulated standards.

Your written grievance must describe specifically what the perceived capricious or unfair action(s) are. You will need evidence/documentation to support this allegation. The instructor of the course with the grieved final grade must receive a copy of the written grievance petition as part of the Step 1 including the appended student supporting documentation at the time the Step 1 petition is submitted.

Importantly, the grade grievance procedure is not for situations in which a student does not like the final grade, just wants a few more points, or if they do not like the instructor's grading standards that were applied fairly to all students in the class. If a student earns 399.4 points in a course and needs an even 400 for a B, the 0.6 points are not grieve-able no matter how much that tiny shortfall frustrates the student. The student handbook specifically notes in the introductory section (Section A) of its Grade Review & Grievance Procedures: "This process does not allow for disputes about the grading of individual exams or assignments during the semester. Where such disputes arise the student should contact the instructor immediately."

The grade grievance procedure has specific timelines and steps that must be followed for the relevant procedures to be followed. Students in the program may not request a closed hearing of their grievance in Step 2 of the process. The hearings need to be open so the Experimental Program Coordinator and BACB VCS Coordinator can be present and be aware of any concerns that may impact program accreditation.

If you have difficulty determining whether you have adequate grounds for a grade grievance, please consult the EMU [Office of the Ombuds](#). They are there to be a resource for students contemplating decisions like this and this office can give you guidance regarding whether you have adequate grounds for filing a grievance at the next step.

Appeal Process

A student whose progress has been found to be Unsatisfactory and who has been either recommended for probation/remediation or dismissal by the program faculty may appeal. See the Graduate Catalog for complete EMU [Academic Probation & Dismissal Policies](#).

Graduate School Requirements

Be sure to reference the EMU [Graduate School Academic Policies and Processes](#) for the current requirements. Graduate school requirements are implemented immediately unless otherwise noted in the policy manual.

Time to Degree

The Experimental Program is designed to be completed in five full-time semesters of study with the Thesis project serving as the variable that determines whether additional time is required. The EMU graduate school will only accept graduate credits that have been completed within six years of the date of graduation. Courses older than this will need to be repeated.

Incompletes

Please see the EMU [Graduate School Academic Policies and Processes](#). In most cases it is more appropriate for a student to withdrawal (see below) from a course than request an incomplete when they have missed a substantial amount of the course due to illness, legal complications, family crisis, or mandatory changes in a work schedule after a semester started. Even when students meet university criteria for an incomplete request, instructors are not required to provide the option of "incomplete" to

students. Thus, even if a student meets university criteria for an incomplete request, this request is granted at the instructor's discretion based on their judgment of what is appropriate for their course.

Withdrawal

Please see the EMU [Graduate School Academic Policies and Processes](#). As noted above, there are [Late Withdrawal Procedures](#) a student can file an appeal for when they have missed a substantial amount of the course due to illness, legal complications, family crisis, or mandatory changes in a work schedule after a semester started.

Stop-Out Policy

Students in good standing who have a minimum "B" and/ or 3.0 grade point average can request a leave of absence or "stop out" from the program. It is important to note that there are no exceptions to the graduate schools rule that all courses counting toward the degree must be completed within six years of the date of graduation. A "stop-out" or leave of absence **does not** provide a student an extension on this time limit.

Students who apply for a "stop-out" must provide the program coordinator with updated contact information to ensure they can be reached during their absence. Students must update the Experimental Program Coordinator of their enrollment status in advance of every subsequent semester (i.e., every four months).

Note: If stopping out in the middle of a semester, students must follow university policies related to withdrawing and contact both their current instructors and the Experimental Program Coordinator.

Academic Probation

Students are placed on academic probation at the end of any semester in which their cumulative EMU grade point average in courses taken for graduate credit is below 3.0. Students must complete six graduate hours at EMU before being subject to academic probation. Students are notified in writing about their status each semester by the Graduate School. Once on probation, enrollment is permitted only on a semester-by-semester basis until the probation is removed. The Graduate School allows students to remain on probation for up to three enrollment periods (three semesters) before returning to good standing. However, **the Experimental Program requires students to achieve a 3.0 in two concurrent enrollment periods (two semesters)**. Probationary students who do not return to good standing by the end of the second enrollment period will be dismissed from the Experimental Program and will be so notified in writing.

Continuous Enrollment

Students completing a master's thesis are required to maintain continuous enrollment every semester of the normal academic year (Winter, Fall) until the requirements of the thesis are completed. Qualifying courses for continuous enrollment may involve either a minimum of one thesis credit hour (PSY 692) or a graduate level content course from the EMU Psychology Department. All thesis proposals (see above) must include an appendix that specifies summer semester thesis workload expectations for the student. If this appendix specifies that summer workload expectations for the thesis require continuous enrollment via additional thesis credits, failure to enroll in thesis credits will result in the project being turned over to the mentor and the thesis being terminated. See the Mandatory Thesis sub-section 7 of this handbook for further details.

Program Requirements beyond Graduate School Requirements

In situations where the Experimental Psychology Program policy is more stringent than the EMU Graduate School policy, the program policy supersedes the Graduate School policy.

GA/TA OPPORTUNITIES

Graduate assistantships provide financial support (tuition scholarships and stipend) and experiential learning experiences. Consequently, these assistantships are highly competitive. They are typically available for up to two years (four enrollment periods), subject to the recommendation of an academic department and approval of the Graduate School. Full-time assistantships provide the following benefits:

- A. Up to 18 credit hours of tuition per fiscal year (Tuition benefits are prorated for part-time assistantships and for G.A.s beginning their appointments after the start of the semester).
- B. Library privileges and a 10% discount on purchases at the University bookstore.
- C. Stipend (about \$9000 per year).
- D. Valuable teaching and research experience.

While there are a limited number of graduate assistantships in the psychology department, additional EMU graduate assistantship opportunities can be found at:

http://www.emich.edu/graduate/financial_assistance/assistantships.php

These additional positions can be searched for at:

<https://www.governmentjobs.com/careers/emichedu>

“13 Rules of Success: A message for students” (Hayes)

Reprint | Hayes, S.C. (1998). *The Behavior Therapist*, 21, 47-49.

Steven C. Hayes | University of Nevada

Recently a student I care about flunked out of graduate school. It is a relatively rare thing, especially in our program which bends over backwards to prevent that outcome. But it has made me think again about just what it is that distinguishes highly successful students from others. We all recognize that some students and some young professionals will "make it" while others who are equally bright will not. Why is this? What are they doing differently?

Let me admit before I start that success is a relative term, and a multidimensional one at that. Too many of us are workaholics and tend to define success too narrowly, downplaying success as a friend, success in enjoying life, success in personal growth, and the like. I secretly hope and suspect that the student who flunked out is in part responding to muses that will lead to success in other areas. The purpose of this short paper, however, is limited to the work habits and general approaches to tasks that characterize successful students in scientific training.

I've tried to distill my opinions down into thirteen "rules of success." None are absolute – I personally violate one or more of these rules almost every day – but I have noticed that when I keep them things work much better than when I don't. I've also noticed that students who keep more of them tend to be much more successful.

Rule 1. Care About the Process, Not Just the Outcome

Few of us will be projected into success suddenly. More probably we will nibble away, and pieces will fall together one by one. The small things can end up being crucial, as skills and knowledge combine in unexpected ways. We simply cannot always predict which of our actions at any given moment will advance our career.

This creates a problem. If success as an outcome is too important, we are likely to cut ourselves off from the processes that might produce it. For example, suppose a professor raises an interesting issue about an intellectual area outside your current interest. If the outcome pay-off is too dominant as a reason to behave there is a temptation to close down intellectually, and the opportunity to learn something that might later be important is missed.

Successful students have a richness about them that comes from an openness to such moments, and a consistency in quality that reveals a general tendency to care. The most successful professionals care about a wide variety of things in the field and emphasize the intrinsic value of the tasks. They are working toward outcomes all the time, but they don't forget the value of the process.

I have a preferred word for this: Play. I don't use this word to trivialize the tasks involved. I use it to point to the source of the consequences that maintain behavior and keep it high quality. The best reason to go to a journal discussion group, or attend a convention, or to do research is to play professionally. It is the "best" reason because playful engagement in a quality process is always immediately available. The concrete outcomes of these activities (e.g., jobs, money, reputation, praise), when and if they arrive, may be subtle and long-delayed. If you rely on such consequences to maintain the activities, they will almost surely drop away.

Stephen Jay Gould provides an example of what happens if you take intellectual play seriously. Yes, he is a paleontologist. But he also has written beautifully about psychology, baseball, architecture, and the human meaning of the millennium. It is obvious that he is entertained by his own scholarly play. Like any playful game, he follows the rules: he knows his evidence. The best students I have ever worked with are those who do things like staying up until 3 a.m. perfecting a presentation to a local group just because the task itself seems important, even though in some larger view of reality it is not. Importantly,

they will show the same care when they are writing a funny poem, or arguing an arcane point in philosophy of science. I suspect that Stephen Jay Gould was like that as a student.

Rule 2. Talk and Write – A Lot

Science is a largely verbal enterprise. Successful scientists must speak, write, persuade, and debate. The only way to become skilled at professional verbal behavior is to engage in it. Talk in class. Talk at conventions. Talk in the halls. Listen and respond. Propose and consider. Argue. Share thoughts. If you think you have something to say, say it. If you wonder if you have some time to say, and worry that it is not worthwhile, say it anyway. Chronic fearful silence is a young scientist's worst enemy, and it is shockingly common. At least half of the wonderfully bright students we recruit into our department rarely talk in class, and in my experience, that is a terrible predictor if it continues.

Now, it is true that occasional thoughtful silence is a good thing. You have to learn to discriminate when to talk and when to listen. But frankly it is much easier to quiet a loud mouth than to jump start a mute, so the discrimination is more easily learned from that end of the continuum.

The same thing applies to writing. Writing with ease comes with practice, but most students seem to think that this “practice” should consist of reading, thinking, outlining, or planning. Those are important, but to get facile with professional writing you also have to write. You have to put words on paper and put them in front of an audience. If you write a paper for a class, write it as if you would publish it. Then try to do just that.

Rule 3. Say "Yes" Easily and Mean It

Early in your career you should expose yourself to different things. You need to broaden your repertoire. When someone talks about a good project, say "let's do it." If someone asks for help with a project, say “yes.” Then deliver. Do *more* than is expected. If your part of the project is to design a computer program, have it done tomorrow instead of next week and add some bells and whistles to it. If you have agreed to organize the lab, do it elegantly.

Rule 4. Work with Others and Share Easily

You can learn a lot from others. They help you push you and they teach you new things. So collaborate. Form teams. Network. Give more than you ask to receive.

The thing that usually prevents collaboration is fear that someone else will get more than you. That is possible, but if you try too hard to prevent that, you kill the collaboration. Worry about order of authorship when the time comes and even then do so with ease. In the larger scheme of things whether you end up third author versus second doesn't matter much. Similarly, if someone else gets some credit for “your ideas,” well there should be plenty more where that one came from if you take advantage of all that others have to teach you.

Rule 5. Keep Your Commitments

This is the most important rule of all. This one rule separates the successful from the unsuccessful student more than any other, but its value cannot be known until you do it. So figure out a way. Set up a program, make it life or death, ransom your grandmother. Do it. Of course, no one always does it. OK, so when you slip, go back and do it 100%. Then when you slip, go back and do it 100%. I violate this one nearly every day. Yet I continue to fight like a tiger to keep it.

Rule 6. Even Dogs Never Urinate in Their Own Beds

In one sense, the outcome of success is dominantly social: people think well of you and your work. But we are all afraid we will fail. Students have the extra burden of dependency combined with some degree of powerlessness. A horribly seductive way to deal with this fear and this burden is through cynicism, criticism, paranoia, gossip, and the like. For example, students can complain to one another about their program, or this or that instructor—but not openly where something might be done. You begin to gather together a group (e.g., fellow students) who will all agree that things are terrible, no one could achieve these standards, the instructors are dolts anyway, and so on. The effect is that a) you get a thin version of the social benefits of success (a supportive verbal community) but without achievement, b) control by the larger scientific verbal community and that of the program you are in diminishes, and c) you can feel righteously bad about where you are. You create a social community in which each person is supported in doing what does not work. It feels good but it goes nowhere.

I have seen this process destroy the training of many students. Sometimes they catch themselves after a year or so and pull out of it. Sometimes they leave the program. The most tragic are those to do their training in a half-hearted (but secretly righteously angry) way, and years later they realize that they wasted their opportunity. The solution is simply to refuse to do it, to walk away when others try to draw you in, and to take responsibility for your career. After all, even dogs never urinate in their own beds.

Rule 7. Acknowledge Your Own Power and Behave Accordingly

Let me tell you something incredible: you can make a huge difference in your discipline. We are not talking about fields that require a gazillion dollar superconducting supercollider to do good work. We are talking about fields that are young and accessible, in which even one person can make a big difference. The unsuccessful students will withdraw in fear from that statement (see Rule 6), or will mistake dreams for action. The successful student will acknowledge their own power, and will push on vigorously to make it manifest. Here is a quote from Nelson Mandela's inauguration speech that I particularly like on this general point:

Our deepest fear is not that we are inadequate. Our deepest fear is that we are powerful beyond measure. It is our light, not our darkness, that most frightens us. We ask ourselves, "who am I to be brilliant, gorgeous, talented, fabulous?" Actually, who are you NOT to be? You are a child of God. Your playing small does not serve the world. There is nothing enlightened about shrinking so that other people won't feel insecure around you. We are born to make manifest the glory of God that is within us. It is not just in some of us, it is in every one. And as we let our light shine, we give others permission to do the same. As we are liberated from our fears our presence liberates others.

Rule 8. Acknowledge Your Own Finitude and Behave Accordingly

You do not know how long you have on this planet. Regardless of how many years, the time is certainly short. I tell my students to be mindful of this in the area of research and to try to do work that is both entertaining and important. For example, sometimes weak students come up with research ideas that are minor variations of what someone else has done in the literature. It is as if they think that is all they can aspire to (see Rule 7) or as if they think they have all the time in the world. My question to students in this circumstance is this: suppose unknown to you, you only have two or three research

studies allotted to you before you die. Do you want to spend one on *that*? Successful students aspire to make a difference in the time they have.

Rule 9. Network With Your Betters

There is a tendency for students to think of experienced and highly successful professionals in two erroneous ways: as persons on a pedestal or as dinosaurs to be overthrown. Unsuccessful students gravitate toward the first error, somewhat more successful students toward the second. But the most useful reaction is to see them as people who have earned respect through their sweat and effort, from whom you can learn. With a few exceptions, well known professionals are likeable, hard-working, and smart. This is not surprising since they would not be well known if they were not. People try to make jerks fail, and dumb or lazy people rarely come up with ideas that withstand the test of time. Successful students want to know successful people – they want to talk with them, correspond with them, listen to them. They want a dialogue of ideas. Unsuccessful students are too afraid or uninterested, or they want only to show off.

Get to know the leaders of the field. Listen to their talks. Talk to them at cocktail parties. Write to them. Send them copies of your work if it seems appropriate. Nice, bright, hardworking people are just good people to learn from.

This networking will help you create a forum for your ideas. Successful students tend to use their intellectual contacts to create opportunities to play. For example, even fairly junior students can organize a symposium and participate in it. If you can get well known people to play on your stage it will elevate your own talk. Then all you have to do is to give a darn good one, which in turn will allow you to network with others about your ideas.

Rule 10. Guard Your Integrity

Anonymous self-reports tell us that a larger percentage of students have at some time cheated in school. Perhaps it was to pass a test or get a better grade on a paper. Students in training know that science is supposed to be above that sort of thing, but we spend little time dealing with the human realities that lead to cheating, preferring instead to moralize. It is very rare that cheating in science is even talked about, and as a result most students do not realize how pervasive the temptation is to cheat in science.

People who want to be successful are especially susceptible to the kind of shaping that can lead to biased data, or outright dishonesty. To order to publish that paper or get that grant, it is tempting to throw out a few outliers or change an exclusionary criterion post hoc. You can often even justify it, but shades of gray compromises can lead to black and white cheating. I've seen highly successful careers tragically destroyed by this shaping process.

Prophylactically, it helps to focus on the process, not the outcome (Rule 1). Watch out for things that might let to internal pressure to cut corners, especially a needless outcome orientation. For example, never do a study "to show x" and if you catch yourself using such a phrase, self-edit it immediately. Do it "to see if x is so." Wanting to be right is your enemy. Wanting a specific outcome is your enemy. Wanting to find out is your friend.

Focusing for the moment on the student scientists (and not the consumers of science—another important matter), the most tragic human cost of scientific cheating is not the careers that are destroyed—after all, most cheaters will “get away with it.” The cost is this: If you violate your integrity, even in little ways, to achieve a particular outcome you will find the activity itself to be less intrinsically

reinforcing. It always works that way. The playfulness disappears. It's now a means to some other end. Science is no longer fun.

Rule 11. Follow Your Bliss

Successful students are confident. I don't mean they necessarily *feel* confident. I mean that they follow their bliss: They are true to themselves. This is confidence-the-action (*con*: with; *fidence*: fidelity). Be true to yourself. If you have an odd mixture of interests, well maybe that mixture will lead to new and exciting things even though someone will tell you that you have to focus on something safer. Take the risk. If it worries you, build a little safety net. Do not, however, violate what seems important to you. You will pay very dearly for the violation because it will take away your compass for scientific entertainment. You can get lost without a compass.

Rule 12. Say "No" Easily and Mean It

As your career progresses, you will naturally focus. It is the only way to maintain your quality. As you focus, learn to say "no." Set priorities. Stick to them. I'm still learning this rule (actually I do it more and more, but the distractions and requests go up too so it seems that I never have quite enough Rule 12 for Rule 5 to be 100%).

Rule 13. Open Your Mail, Return Your Phone Calls, and Keep Your Desk Clean

Oh well. Not every rule can be followed.