# NBB Honors Packet 2015-2016

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NEW NBB HONORS STUDENTS – tips, goals & requirements

Being an NBB honors student is an amazing accomplishment and a very special opportunity – congratulations and welcome to the program. You are not just having a research experience, not just building a relationship with your mentor, and not just writing a report. You are creating a tailored, unique, high-level, capstone experience for your college career. To get the most out of the Honors experience, keep these tips in mind:

1. Build a strong relationship with your mentor. Key components include:
   a. Communication. Work together to discuss and agree upon expectations including TIME requirements in the lab and FEEDBACK mechanisms (e.g. weekly or bi-weekly meetings, lab meeting presentations, etc.). ASK questions.
   b. Reliability. Do what you say you’ll do.
   c. Respect. Respect your advisor, both the faculty advisor and your day-to-day advisor, by asking what they expect. Make sure to give them both time to review your work, give them ample time to meet Honors and NBB requirements. They have a lot of responsibilities, one of which is mentoring you, so be sure to respect their time and their many roles.

2. Build independence. Key components include:
   a. Literature research. You advisors will give you articles, but you should also work to find new and related work on you own – bring the ideas from these articles into your discussions – SHOW and DEMONSTRATE your independent thoughts and enthusiasm.
   b. Write excellent drafts. Although most of our work in the sciences is co-authored and it is unprofessional to turn in anything that your advisors have not approved, you should still be the primary author of any Honors documents. The work your advisors read should never be your first draft- work with peers, writing center editors, and work hard to always show them your best efforts.

3. Practice communicating about your Honors experience. Your Honors work will only help you in the future in as much as you can tell others about it. Key components include:
   a. Reflect on your experiences – don’t simply follow directions and check boxes. What are you really learning about the science and about yourself? Journaling can help you find succinct examples to use in interviews and applications – Examples of how you’ve overcome adversity? Examples of how you used critical thinking skills to solve a problem? Examples of your passion for a field? You may forget moments and you may not realize what they can represent until much later in your process, journaling and writing about things that happen can help you reach back for great examples to use in the future.
   b. Talk to a variety of audiences about your work. Talk to other Honors students, talk to your family, talk to your roommates, present posters, present in lab meetings, etc. Ask them to ask you questions and practice explaining the science and what you’re learning to audiences with different motivations for listening.
   c. Write about your experiences. Your NBB Honors proposal, your committee reports, your thesis, your poster will all help you hone your written communication skills. This is hugely important for future jobs, careers, and
opportunities. Work hard to get better with each try. Save examples of your writing to show to future evaluators.

4. Keep in touch with Dr. Roesch. Wondering if you’re experiencing something weird? Not sure how to handle something? Did you get a strange response when you thought you knew how to handle something? Dr. Roesch is the Director of Undergraduate Research in NBB for a reason – more than 10 years of working with undergraduates in research at Emory...Run it by her.

First semester goals & requirements:
1. You MUST be registered for NBB495A by the end of add/drop/swap.
   a. Remember that you must average at least 3 hours/week on the project for each credit (e.g. 12+ hours/week for 4 credits).
2. Write and submit a strong and thoughtful Honors Project Proposal.
   a. The 2015 deadline is 4 pm Oct 6th. You must submit, via Blackboard, a PDF signed by your research mentor.
   b. You are the primary author, but your research mentor must approve your work as he/she is responsible for mentoring you and the science you produce. Plan ahead to get drafts to your mentor well before the NBB deadline.
   c. The report must be 3-5 pages, 1 in. margins, 12 pt font, 1.5 line spacing and include sections on: Background/Introduction, Clearly stated hypothesis, Basic methods, Timeline of major goals, Expected results/current data, and Cited research.
3. Attend a mandatory College Honors meeting.
   a. 2015 dates/times are: 10/1 White Hall 206, 10/5 White Hall 206 or 10/7 White Hall 101 all 4:30-5:30 pm.
4. Form your thesis committee and submit the committee declaration form to NBB.
   a. Your committee declaration form is due via Blackboard by 4 pm on Oct 27th.
   b. NBB will forward the form to the College Honors program.
5. Plan to take your Graduate level course if you’ve not already done so.
   a. If the class is three or four credits, it can fulfill an NBB Program elective course requirement, assuming that your NBB academic advisor feels it has appropriate NBB content.
   b. A two-credit course or more will fulfill the Honors requirement.
   c. The graduate course must be taken for a letter grade.
   d. You must have the permission of the instructor to register for the course – it is also a good idea to discuss the course with the instructor before you ask permission to enroll.
6. Keep your GPA at 3.50 or better.
7. Schedule your Honors Thesis Progress report by December 8th.
   a. It must be SCHEDULED by 4 pm on 12/8 but must OCCUR by 4 pm on Feb 2.

Please note: Failure to meet ANY of the above deadlines is grounds for being DROPPED from the NBB Honors Program and/or earning an ‘F’ NBB495A.
Second Semester NBB HONORS STUDENTS – tips & goals

Second semester of honors is generally a huge effort in time and stress management. Deadlines come fast and you will need to be diligent to stay on track.

Second semester goals and requirements:
1. You MUST be registered for at least 1 credit of NBB495BW by the end of add/drop/swap.
   a. Remember that you must average at least 3 hours/week on the project for each credit (e.g. 12+ hours/week for 4 credits).
2. At the very beginning of the semester, you should meet with your research advisor and discuss all of the details of your project.
3. Based on the early and comprehensive meeting with your research advisor, revise your original proposal into a written Progress Report.
   a. The report must be 3-5 pages, 1 in. margins, 12 pt font, 1.5 line spacing and include sections on: Background/Introduction, Clearly stated hypothesis, Basic methods, Timeline of major goals, Expected results/current data, interpretation/assessment of current data, and Cited research.
   b. Prepare to discuss changes from original proposal with your committee, the 499/495 class and Dr. Roesch.
4. Share your written progress report with your committee BEFORE your progress report meeting.
   a. The meeting must occur before 4 pm February 2nd.
   b. Submit the written progress report and the progress report meeting form to NBB via Blackboard by 5 pm on February 2nd.
5. Schedule your defense to OCCUR before April 5, 2016.
   a. The progress report meeting is a great time to confirm when your committee members are available for the defense (schedule a 90 min block).
   b. Confirm with your committee when they’d like to receive your completed written thesis – usually one week before the scheduled defense. Usually, committee members prefer electronic documents, but offer to print it out and deliver it if anyone prefers a hardcopy.
6. Immediately after your oral defense,
   a. Submit your Thesis Exam Report to NBB via Blackboard by 5 pm on Wed April 6th.
   b. Work on any changes/additions to the written document that your committee requires.
7. Submit your FINAL written thesis via the College Honors Program directions by Tuesday April 12th.
8. Submit any other forms required by the College Honors Program directly to OUE by Thursday April 14th.
9. Submit a poster for the NBB poster session by Thursday April 14th 5 pm.
   a. If you plan to print with Emory College, follow directions for free printing as discussed in 499/495 course.
b. Regardless of where you print, an electronic version of your poster is due via blackboard by 5 pm on April 14th.

10. Present your NBB honors poster at the NBB undergraduate research symposium on Monday April 18th from 3-6 pm.

11. Participate in the College Honors Ceremony on Sunday May 8th.
   a. Be sure to confirm with your Faculty mentor that he/she will be able to attend the ceremony.

Please note: Failure to meet ANY of the above deadlines is grounds for being DROPPED from the NBB Honors Program and/or earning an ‘F’ NBB495A.

Tips for the oral defense-
You may have a public portion of your defense where friends, colleagues, labmates, etc. attend your oral presentation. The presentation should last about 20-30 minutes and should be well practiced, thorough, and smoothly delivered. During this time, the ‘public’ (and not your committee members) is expected to ask you questions. Once the ‘public’ is satisfied, everyone leaves the room except you and your committee (it is appropriate for your direct, day-to-day mentor to stay for the ‘closed’ portion of your examination at the discretion of your Faculty research mentor). During this ‘closed’ session, your committee will ask you question about your oral presentation and your written document. Once your committee members are satisfied, you will be asked to leave the room for the committee to deliberate and vote on your level of honors (day-to-day mentors not official on your thesis will not technically vote). Once the committee is finished deliberating, you will be welcomed back into the room for final discussion of the committee’s decision (and often celebrations!).

The guidelines for Degrees of Honors (Honors, High Honors, Highest Honors) are described on the COLLEGE HONORS PROGRAM website (http://catalog.college.emory.edu/academic/honors/).

   Honors (cum laude) represents satisfactory completion of the program with an overall GPA of 3.5 or above. High Honors (magna cum laude) represents completion of the program with outstanding performance, including an overall GPA of 3.5 or above and a thesis of quality sufficient for oral presentation to scholars in the candidate’s field. Highest Honors (summa cum laude) represents completion of the program with exceptional performance, including an overall GPA of 3.5 or above and a thesis of a quality suitable for publication.

In the NBB Program Highest Honors is usually restricted to a thesis that contains data that is rigorous enough for publication. For example, high-quality, thoroughly-tested, yet negative results are, unfortunately, not often published in many fields, but this should not preclude a student from earning Highest Honors. Further, if the data are strong enough to be included in a publication, but not themselves enough data for an entire publication, the thesis may also be considered for highest honors.
New NBB Faculty Research Mentors

Thank you for your support of NBB undergraduate
The NBB undergraduate major designed as an interdisciplinary major wherein students are required to take a set of courses from Biology, Chemistry, Psychology, Anthropology and specially-developed NBB courses.

The program offers specific courses which students can earn academic credit for working in research with a member of the Emory faculty:
For each course credit, the student is expected to work on the project an average minimum of 3 hours/week.

• **NBB 399** is designed for students just familiarizing themselves with the research questions and techniques. It may be taken for as few as 1 credit (3 hours/week) and as many as 4 credits (12 hours/week). Much time shadowing, rotating through projects and reading the literature are totally appropriate activities for this course. The student’s grade in the course will be entirely dependent on whether he/she has met the goals and expectations you have set for the work. You are encouraged to evaluate the student primarily on effort rather than delivery of results.

• **NBB 499** is designed for students who are more-or-less ‘up and running’ and gaining independence on a specific research project. Although there are no pre-requisites for this course, students are expected to be familiar with the project and techniques before the semester starts so they will be able to ramp up productivity and independence quickly during the semester. NBB499 may be taken for 3-4 credits per semester (9-12 hours/week minimum) and can be repeated for up to 8 total credits. NBB499 students should be working on a specific research question with growing independence and responsibility. NBB499 students will attend regular meetings with other students in NBB499, write a research proposal and/or research report each semester, and present a poster in the NBB symposium at the end of the spring semester. The student’s grade in the course will be largely dependent on whether he/she has met the goals and expectations you have set for the work, but meeting the basic requirements for the regular course meetings will also be considered in the grade. You are encouraged to evaluate the student primarily on effort and intellectual contribution rather than delivery of results.

• **NBB495** is the course supporting the NBB Honors Program. Honors students must be in their final two semesters in the College, have at least a 3.50 overall GPA, and meet a number of requirements throughout the two-semester program. More details about the program are in the NBB Honors Packet. In general, these students should be highly independent and making significant intellectual contributions to the research. NBB495 students will attend regular meetings with other students in NBB495, they will form a thesis committee, report on progress, write and defend a thesis, and present a poster in the NBB symposium at the end of the spring semester. You will grade the student’s work each semester as well as chair the thesis committee, which will determine the student’s level of honors (highest honors, high honors, or honors).
It is totally appropriate for the student to have a day-to-day mentor who is not the Faculty advisor. However, the Faculty advisor will be responsible for the student’s experience and will be required to sign off on the student’s application for credit and all grade reports.

There are no NBB-major specific funds set aside to support the student’s work on the research projects, but please consider the following details about funding:

• Students may not earn an hourly wage for the same hours counted toward academic credits (e.g. Federal Work-Study hours must be separated from NBB499 hours).
• Students may accept merit-based awards or scholarships related to performance in research (e.g. IMSD awards, NET/Work awards, Petit Scholars, etc.).
• Students may apply for grant funding for research supplies through the SIRE Grants program. See: http://college.emory.edu/home/academic/research/sire/grants/
• You may be able to apply for supplemental funding to support your undergraduate researchers on your existing NSF or NIH grants. Check with your program officers and/or the office of Dean Ron Calabrese: http://college.emory.edu/home/administration/office/dean/#research-assoc-dean

Finally, be sure to use me for any questions, concerns or thoughts about undergraduate research. As Director of Undergraduate Research for the NBB program, it is my job to help facilitate your work with our students – please keep in touch. I can be reached at leah.roesch@emory.edu.
NBB Honors Checklist 2015-2016

Pay close attention to the checklist below. Failure to comply with these requirements in a timely fashion can, at the discretion of the College Honors Program or Dr. Roesch, lead to your exclusion from the Honors Program. In addition, NBB faculty may resign from Honors Committees if they do not receive the written thesis in time to properly prepare for the defense - not having a full committee for your defense will prohibit you from graduating with Honors.

[ ] Register for NBB 495A & 495BWR in two sequential semesters.
[ ] Complete a Graduate School Course of 2 credits or more.
[ ] Submit a completed and signed Research Proposal to Dr. Roesch by October 6th, 2015.
[ ] Attend mandatory College Honors meeting in October.
[ ] Select a committee and provide them with a copy of your proposal. Complete and submit the Committee Declaration form & submit it to Dr. Roesch by October 27th.
[ ] Complete a 15 minute oral progress report to committee by February 2nd, 2016.
[ ] Complete and submit the Progress Report FORM to Dr. Roesch by February 2nd, 2016.
[ ] Complete and submit the WRITTEN Progress Report to Dr. Roesch by February 2nd, 2016.
[ ] Schedule your defense to OCCUR before April 5, 2016.
[ ] Submit your written thesis to your committee at the scheduled time, usually 1 week before the defense date.
[ ] Complete the oral thesis defense by April 5, 2016.
[ ] Submit your Thesis Exam Report to NBB via Blackboard by 5 pm on Wed April 6th.
[ ] Submit your FINAL written thesis via the College Honors Program directions by Tuesday April 12th.
[ ] Submit any other forms required by the College Honors Program directly to OUE by Thursday April 14th.
[ ] Submit a poster for the NBB poster session by Thursday April 14th 5 pm.
[ ] Present your NBB honors poster at the NBB undergraduate research symposium on Monday April 18th from 3-6 pm.
[ ] Participate in the College Honors Ceremony on Sunday May 8th.
STUDENT APPLICATION - NBB 495A or 495BW (CIRCLE ONE)
Fall 2015 or Spring 2016 (CIRCLE ONE)

___________________________  __________________________
Student name                    ID number

Email Address

Number of credit hours for semester circled above (NBB 495A (4 credit hours only); NBB 495BW (1-6 credits)): ____________

1. List the title or topic for the proposed project.
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

2. You must have a research advisor who has agreed to supervise your project.
Advisor name: _______________________________________________________
Advisor dept: _______________________________________________________
Telephone: __________________________________________________________
E-mail: _____________________________________________________________

I have reviewed this student’s former coursework, and I agree to supervise the project as described above. I support the student completing an honors thesis, participating in a bi-weekly mandatory class (Mondays at 10 am or Tuesdays at 4 pm) and presenting portions of his/her work in class/committee meetings and in the annual NBB symposium in April.

________________________________________  __________________________
Signature of research advisor                        Date

3. Please return this completed form to Dr. Leah Roesch for final approval. You will be issued a permission number for registration after your application is approved.

________________________________________  __________________________
Approval for NBB 495                        Date

4. Please indicate below which course you wish to drop if your semester hours will exceed nineteen academic credit hours with the addition of NBB 495A/495BW. To take more than nineteen hours, you must have permission from your faculty advisor and the dean.

____________________________________________________________________
5. Please indicate below which semester and year you have completed or plan to enroll in NBB 221 or QTM 100. Reminder: To do Honors you MUST take NBB 221 or QTM 100.

__________________________________________

6. Which semester you have or will take your required NBB-related graduate course?

__________________________________________

7. What is your cumulative GPA? A GPA of 3.5 is required to do an Honors Thesis.

__________________________________________

8. Do you plan to attend the Monday or the Tuesday section of the class (Circle One)

PLEASE NOTE:

ALL students are required to attend biweekly meetings to present progress reports of their ongoing research. These meetings will be held on Monday mornings from 10 am – 11 am or Tuesday afternoons from 4 pm – 5 pm in the 1462 Clifton Road building.

Your signature below indicates your agreement to attend and fully participate in these meetings.

__________________________________________  __________________________
Student signature                    Date
NBB Honors Committee Declaration
Complete and submit this form via Blackboard by 4 pm on Oct 27th, 2015.

Research advisors should sign the form when they agree to be a member of the Honors committee. Please print the names of the other committee members and their departmental affiliation.

Student’s Name: ____________________________________________________________
Advisor’s Name: ____________________________________________________________
Advisor’s Dept.: ____________________________________________________________

OTHER COMMITTEE MEMBERS MUST SIGN BELOW.
PLEASE PRINT NAME AND DEPARTMENTAL AFFILIATION NEATLY.

Committee Member(s)/Department(s)*:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

* While 2 of the minimum 3 committee members must be NBB PROGRAM faculty (from different Emory Departments), one Honors Committee member must NOT be a NBB Program faculty member, but still have a faculty appointment at Emory. Additional (>3) committee members may be chosen without restriction (e.g. institution or department) with the approval of the Thesis Advisor and Dr. Roesch.

The composition of your committee must be approved by Dr. Roesch. Once approved, Dr. Roesch will forward the information to the College Honors Program. If your committee changes at any time, please email Dr. Roesch immediately with a description and explanation of the changes.
**NBB HONORS PROGRESS REPORT FORM**

Submit the written progress report and the progress report meeting form to NBB via Blackboard by 5 pm on February 2\textsuperscript{nd}, 2016.

Research advisors and committee members should sign the form after the student presents an oral progress report to the committee. Please neatly print or type the names and department for each of the committee members.

SIGNATURE without comment indicates that the committee members feel that the student is on track to successfully defend the thesis by April 5\textsuperscript{th} 2016.

Student’s Name: __________________________________________________________

Advisor’s Name and Dept.: ________________________________________________
Committee Member(s)/Department(s):
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

The student, in consultation with his/her research advisor, should briefly outline the additional work that the committee feels must be completed prior to the final defense:
HONORS EXAMINATION REPORT
Please print neatly or type – the report will not be accepted if illegible
Submit this Exam Report to NBB via Blackboard by 5 pm on Wed April 6th. NBB will forward the report to the College Honors Program.

Name ___________________________ Student ID #: (7 digits) __________

Major of honors work: _Neuroscience & Behavioral Biology____________________

Degree of Honors: (Check only one) _____ Highest Honors

 _____ High Honors

 _____ Honors

Title of Thesis: __________________________________________________________

______________________________________________________________

committee: (Please print or type names here-NO signatures. Initial by printed name.)

(1) ___________________________ Dept./Program ________________
   (Adviser)

(2) ___________________________ Dept./Program ________________

(3) ___________________________ Dept./Program ________________

(4) ___________________________ Dept./Program ________________

Signed**:_________________________________________________________ Date __________
(Thesis Advisor, Department/Program Honors Coordinator, or Department/Program Chair)
**NBB 495 Grade Report**

These questions will be emailed to all Faculty Research Mentors and the students’ grades will be received via email directly to Dr. Roesch. Faculty mentors must complete this form for every semester of NBB495.

To the 495 Supervisors:  
Please rate your student’s performance this semester, following these guidelines: (+/- These can be added to any grade except two: there is no A+, and no D-.)

- **A** The student was self-motivated, able to work independently, knowledgeable about the project, worked hard.
- **B** The student was self-motivated, needed some help at every step, worked the agreed number of hours, showed some weakness in understanding the issues involved.
- **C** The student needed help at every step, showed definite lack of understanding of the issues involved, but did work the hours agreed upon (or close to it).
- **D** The student was not motivated, was not able to work independently, was not knowledgeable, worked not all the hours agreed upon but greater than 50% effort, did progress somewhat during the term and did perform some work.
- **F** The student did not put in much effort at all, and obtained not results. The student did not improved during the semester.

____________________________________________________________________________

**Additional Comments:**

____________________________________________________________________________

**TO BE COMPLETED BY THE SUPERVISOR:**

STUDENT NAME: ________________________________________________

RECOMMENDED GRADE: __________

SIGNATURE OF ADVISOR: _______________________________________

TELEPHONE NUMBER: ________________________________