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These guidelines of the policies and expectations of the Program in Cancer Biology (CB) will be continually reviewed and updated in an effort to keep them current. Official decisions on any aspect are rendered by the Executive Committee in consultation with the Director, DGS, and the faculty of the Program.

The CB Program provides students with the opportunity to develop theoretical and practical research competence in Cancer Biology and related disciplines. Research interests of the faculty are described on-line at the Graduate Division of Biological and Biomedical Sciences (GDBBS) and CB Program websites.

PART I. ADMISSION TO GRADUATE STUDIES

A. Admission Requirements and Procedures

The CB Program is designed for students pursuing a Ph.D. degree or the combined M.D./Ph.D. degrees. Application materials, admission requirements, financial information and degree requirements are available on the GDBBS website. All applications are made to the GDBBS with an indication of interest in the CB Program. The CB Program Recruiting and Executive Committees evaluate applicants principally on research experience, educational background, Graduate Record Examination (GRE) scores and letters of recommendation. A successful applicant typically has a strong science background in chemistry, mathematics, physics and biology. The Program will not admit students wishing to study for a Master’s degree.

Applicants who have completed a Master’s degree in Biology, Biochemistry, Molecular Biology, Genetics or a closely related discipline (or the equivalent) may request admission directly into Advanced Standing (see definition under Part IV, C below). Applicants interested in the combined M.D./Ph.D. Program should contact the Medical Scientist Training Program, Office of the Dean, Emory University School of Medicine, Woodruff Health Sciences Center Administration Building, Atlanta, GA 30322.

B. Admission of Transfer Students

Students who are currently training in other graduate programs are not normally admitted. We require that such students either complete or resign from their current graduate program before such applications will be considered. However, we will confidentially consider a student’s application with an appropriate explanation of why they have not resigned from their current program, according to the following policy:

1. The student must submit a complete application, with the exception of letters of reference.
2. The admission committee will review this material and the applicant will be advised as to the competitiveness of the application.
3. If the student wants to continue the application process, the references will be contacted, as will the director of the current graduate program.
4. If the student’s current program has no objections, we will then consider the application using our normal procedures, after completion of the application process through the GDBBS (see above).
C. Transfers to Other Programs at Emory

The Graduate Division of Biological and Biomedical Sciences (GDBBS) supports students admitted to the CB Program. As such, they may choose to do rotations or dissertation research with any of the Graduate Training Faculty of the Division regardless of their program affiliation. Thus, a student may be in the CB Program and his/her dissertation advisor could be a member of a different graduate program. In this case, it is recommended that the dissertation committee be carefully selected to ensure that the student’s curriculum provides for training commensurate with other students in the CB Program.

In some cases, the student may wish to transfer to the graduate program where the proposed advisor holds a training appointment. This can result in changes in required coursework or exam scheduling to meet the requirements of the new program. A letter of intent requesting the transfer should be sent to the Director of the student’s current program, to the Director of the intended program, and to the Director of the Graduate Division of Biological and Biomedical Sciences.

PART II. TRAINING FACULTY MEMBERSHIP CRITERIA

A. Admission Requirements

The training members of Cancer Biology graduate program must be tenure-track, full-time Emory Faculty, established experts in the fields of Cancer Biology or related biological and biomedical sciences, and should have sufficient extramural funding to ensure support of the students’ research projects at the time when a student chooses to work in their laboratories to complete their dissertation research. Examples of documented expertise include doctoral and/or postdoctoral training in the field, and publications in major peer reviewed journals of the areas represented by the program.

An application for membership to the Cancer Biology training faculty requires the following items: (Current GDBBS faculty members are not required to submit items marked with *)

- an updated curriculum vitae highlighting the Faculty activities and publications in cancer biology
- a NIH-style biosketch including “other support” information
- a one page description of the candidate’s research, including a one sentence summary of his/her major research efforts suitable for use in a recruiting brochure and 5 key words including if relevant the main organ-type(s) of cancer studied
- a statement of relevance of the candidate’s research to Cancer Biology
- a list of past, present, or anticipated collaborations with CB Program faculty
- a letter to the Director of the Graduate Division of Biological and Biomedical Sciences (GDBBS), if not already a GDBBS member *
- a letter of support from the candidate’s Departmental Chair), if not already a GDBBS member *
- a description of past experience in training doctoral students or postdoctoral fellows), if not already a GDBBS member *

The complete application packet should be sent to the Chairperson of the Faculty Membership Committee with copy to the CB Program Director. The Membership Committee will review the application and make recommendations to the CB Executive Committee. Recommended candidates will be invited to present a research seminar open to the Emory community and specifically advertised to the Program faculty and students. The CB faculty will be polled by anonymous ballot on the acceptability of admission based on the candidate’s credentials, added value to the CB program,
activity and relevance to cancer biology and acceptance of the research seminar. The Faculty Membership Committee will make the decision based on the results of the faculty ballots and a recommendation will be forwarded to the Program Director and the Executive Committee, who will render a final decision about whether to accept the candidate into the program. Upon reaching a favorable decision, the Chairperson of the Faculty Membership Committee will forward a letter of recommendation co-signed by the Program Director for acceptance to the Director of the GDBBS along with the candidate’s dossier. According to the Laney Graduate School guidelines, the candidate’s dossier will be forwarded to the Dean of the Laney Graduate School for final approval. Following Graduate School approval the applicant will receive an official letter of acceptance from the CB program Director co-signed by the Chairperson of the Faculty Membership Committee.

**Current GDBBS guidelines restrict faculty membership to a maximum of two programs in the Division. A two year waiver of this restriction (expiring August 1, 2012) has been granted to existing GDBBS members who wish to join the CB program as a 3rd affiliation. After that time, the policy will revert to the current GDBBS policies. Please note that under current GDBBS policy a candidate can petition the Division Director for permanent admission to more than two programs.**

The three types of GDBBS faculty membership are *Full, Associate, and Adjunct Members*. The definition of membership rights and responsibilities are as follows:

**Full Members** must be tenure-track faculty at Emory University in good standing. They have full rights and privileges, including the right to serve on any GDBBS Committee or in an administrative position, and to act as Dissertation Advisors.

**Associate Members** must be faculty at Emory University in good standing. These faculty members have the rights and privileges of full members, except they may only serve as a Dissertation Co-Advisor. Generally, this membership category would apply to Research or Clinical track faculty, faculty who may not take a student because of indebtedness to the Stipend Reserve Fund, or those who have been judged to be non-participatory during the annual Program review of participation. Research or Clinical track faculty wishing to apply for full membership can apply for an exception upon written request to the GDBBS division director.

**Adjunct Members** are typically faculty or staff of another institution and must have credentials similar to those of our Full Members. They will have all the rights and privileges of full members, except that they may only serve on the University or GDBBS committees ex officio, and they may only serve as Dissertation Co-Advisors.

The application for membership will remain the same regardless of membership category, with the rank of the proposed appointment specified in the letter from the Program Director to the GDBBS. According to GDBBS policies, a Full Member must direct all Dissertations, even if the research is being done in the laboratory of an Associate or Adjunct member.

**B. Faculty Responsibilities**

The Cancer Biology training faculty members have full rights and privileges, including:

- serving on any GDBBS Committee or in an administrative position
- acting as dissertation Advisors
- voting on the admission of new faculty
voting at program Faculty meetings
• presenting their candidature for election to the program Executive and other Committees
• proposing amendments to the program Bylaws
• proposing speakers for the Cancer Biology program seminar series
• presenting their own work at the Cancer Biology program seminar series
• proposing new graduate courses in cancer biology
• participating in the annual retreat and other social functions of the program
• presenting their work to the incoming class of graduate students at the annual Faculty presentations

Program members are expected to actively participate in Program functions, including:

• serving as dissertation advisors to graduate students in the Program. The dissertation advisor is financially and intellectually responsible for the development of that student and assumes the major oversight of the student’s successful completion of the Ph.D. program.
• serving on dissertation committees
• directing laboratory rotations by first-year students
• teaching in graduate level courses that are part of the CB curriculum
• recruiting new graduate students for the CB graduate program or MD/PhD program
• contributing questions and grading of written qualifying exams
• participation on the oral qualifying exam panels
• attending research seminars offered by the program (which includes, but is not limited to, the student seminar series, those given by Program faculty, and those by invited outside guests that are sponsored by the program)
• participation in recruitment activities
• attending CB Program faculty meetings
• voting on admissibility of new faculty members

C. Faculty Review

The CB program training faculty members will be reviewed annually. Each year the members will be requested to submit a report detailing their program participation and activities to the Faculty Membership Committee who will determine sufficiency, and make a recommendation to the Executive Committee for membership renewal or for notification of deficiency. The Chair of the Membership Committee will notify members who are found deficient in Program participation with suggestions for helping them regain a full level of participation. Members on probation become de facto Associate Members and may not accept new students and will have one year to demonstrate active participation to meet the requirements of the Program. Faculty members who fail to demonstrate satisfactory participation during this period will be removed from the Program. The removed members can appeal to the Executive Committee with a rebuttal statement to request reinstatement. If a faculty member being considered for removal from the Program as a result of lack of participation is the advisor of a Cancer Biology student, accommodations will be made to minimize disruptions to the student’s progress, in consultation with the Program Director and DGS.

Satisfactory participation includes displaying adequacy in at least two of the following categories. Examples of each category are given.
1. Teaching:

- Directing, co-directing or teaching at least 10 contact hours in course(s) within the last three years in a GDBBS graduate course relevant to the CB Program and taken by a significant number of CB students. Undergraduate, medical, and allied health courses are not considered CB-relevant unless they also carry a GDBBS listing and were taken by a significant number of CB students during the three-year period in question.

- Writing and grading Part 1 examination questions.

- Serving on Part 2 qualifying exam committees

2. Research Training:

- Membership on dissertation committees of students in the Program.

- Attendance at a significant number (e.g., >10 / year) of student seminars and dissertation defenses

- Attendance at relevant faculty research seminars.

3. Administrative:

- Holding any executive office in the Program including Director, Director of Graduate Studies, Executive Committee member, Recruiter, active participation in other graduate program student thesis committees, OR

- Holding an executive office in the GDBBS, OR Laney Graduate School of Arts and Sciences (but not within the administrative structure of another program).

- Participation in recruitment efforts is required, including meals and interviews, during the annual recruitment period or individual field visits to recruit at academic institutions.

PART III. ADMINISTRATIVE STRUCTURE

All graduate degrees offered by the CB Program are granted by the Laney Graduate School of Arts and Sciences and the Graduate Division of Biological and Biomedical Sciences (GDBBS). The Dean of the Laney Graduate School and the GDBBS Director are assisted in the formulation of policy and the resolution of problems by a GDBBS Advisory Committee, which consists of the Directors of programs offering graduate training. In addition, a Divisional Student Advisory Committee (DSAC), consisting of students from each of the Programs, affords a way for student concerns to be raised and discussed.

A. Program Director & Director of Graduate Studies

The Program Director will chair meetings of the Program membership and acts as the liaison between the Program and the GDBBS. The Director will also serve as the Chair of the Executive Committee of the Program. Candidates for the Director will be nominated and elected by a majority vote of the
Program Faculty. Typically, the Director will not be a departmental chairperson and will serve a term of three years.

The Director of Graduate Studies (DGS) shall be elected by a majority vote of the Program membership at large for a three-year term. The DGS will serve as Vice-Chair of the Executive Committee. The DGS is the primary Program resource for the students.

B. Executive Committee

The Executive Committee functions in an advisory role in all matters concerning graduate students and the Program. The committee will typically consist of 9 faculty members, including the Program Director who acts as Chair, DGS and 7 others elected at large by the Program faculty and serving overlapping three-year terms. One student representative, elected by the student body, will also serve on the executive committee for a one-year term and will have full voting privileges except in matters concerning the standing of program faculty or student where he/she will be excused. In the event that an at-large position becomes vacant mid-term, the Program Director shall appoint a CB Program faculty member to serve out the remainder of the vacated term. The duties of the Executive Committee include reviewing applications for admission and financial aid, reviewing graduate student curricula and performance, administering Part 1 of the Qualifying Examination, assessing faculty participation and membership, facilitating communication both within the Program and beyond, and ensuring that all requirements for a degree have been met. The DGS presents students to the Committee each year to assess the progress of the students in the Program, including course work, dissertation advisor selections and dissertation committee composition. The Principal Investigator(s) of a relevant training grant will be considered an ex officio member of the Executive Committee. The Executive Committee will meet as frequently as needed to handle programmatic issues. Minutes of the meetings will be taken by the Program Coordinator and archived after review by the Program Director and other relevant faculty members.

C. Recruitment and Admissions Committees

A Recruiter will be selected by majority vote of the Program Faculty and will typically serve a three-year term. The Recruiter serves as the head of a recruitment committee, which is composed of Program Faculty representing the broad research interests of the Program. The committee’s main function is to review applications, prioritize applicants selected for interviews, send out invitations, organize the site-visit and interview recruits, and to collect all the information post-visit. The Committee makes a recommendation to the Program Director and the Executive Committee as to the ranking of the applicants for acceptance to the Program. Following approval of the list, the Recruiter informs the GDBBS and Graduate School of the selected applicants who will receive an official invitation to join the program.

D. Laboratory Rotations

Laboratory rotations expose students to different research approaches and techniques of modern science. They help define a student’s research interests and assist in the selection of an advisor by providing the student with an opportunity to sample different lab environments/research areas, to assess available research projects, and to evaluate compatibility with the lab and potential advisors. Rotations also allow faculty to observe and evaluate the aptitude of first-year students for research. Expectations for time spent in the laboratory should be clearly established between the faculty member and the student before beginning each rotation. In general, students are expected to be working on their projects when not attending class or studying.
Students are encouraged to use the Faculty research talks (held in the first 2-3 weeks of the first Fall semester) and to talk to several potential rotation advisors before deciding in which labs they are interested in rotating. Selection of rotations should be made in consultation with the DGS, who will serve as advisor until a student has decided upon a formal dissertation advisor. A Rotation Advisor Selection form (available on the CB Program website) must be submitted to the DGS for each rotation.

Students are expected to complete at least three rotations in their first year. The student may also treat as one rotation, any lab experience of at least 8 weeks duration in a CB faculty member’s laboratory in the summer before formal entrance into the Program (“head start” program). Students may also choose to do a fourth rotation in the summer following the first academic year.

Upon completion of each rotation, the student will be required to give a 15 min oral presentation as part of a mini research symposium consisting of all rotation students and their advisors to be held within one week of the completion of the rotation period, and should be in the format of a short research report detailing the introduction/goals, experimental methods, and results. Laboratory rotations are graded with a letter grade (A, B, C or F), and are determined by the faculty sponsor and reported to the DGS. A Laboratory Rotation Completion form (available on the CB website) should be completed by the student and rotation advisor and submitted to the DGS.

E. Selection of the Dissertation Advisor

It is expected that at the end of the third lab rotation, each student will select a Dissertation Advisor who will assume the primary responsibility for direction of course and research activities necessary to complete the PhD degree. This will normally occur by the end of the Spring semester of the first year. A student may request to postpone advisor selection and take an additional (fourth) rotation, with the agreement of the DGS.

Before deciding on a research advisor, students should discuss possible research projects with program faculty whose work may be of interest to them. This, and the experience from laboratory rotations should allow the student to make an informed decision. Although there is no set of uniform criteria, and individual experience and needs will differ, some factors that the student may want to consider when selecting a research advisor include their level of interest in the research area, the projects available for study, the time, resources and space an advisor has to devote to the student’s research, the laboratory environment, and compatibility with the advisor.

Students and faculty cannot make any final commitments until completion of three rotations. Once a choice has been made, the student and prospective advisor must complete the Request for Assignment form (available on the CB website) and the GDBBS Advisor Assignment Agreement form (available on the GDBBS website) and submit them to the Director of Graduate Studies. The Dissertation Advisor is responsible for getting his or her Departmental Chairperson to sign the GDBBS form and must complete the funding documentation portion of the form. The Program Director and Executive Committee will then evaluate the request, making every effort to accommodate the student’s wishes. To ensure that the quality of mentoring and training is maintained, the Executive Committee will normally approve the assignment of a maximum of two CB students from any single matriculating class to any single advisor. The Executive Committee may waive this rule under exceptional circumstances if adequate justification can be presented.
F. Dissertation Committee

1. Function and Composition of the Dissertation Committee

The primary responsibilities of the dissertation committee is to oversee the progress of the student in the research portion of their training, including assisting the student in creating and executing an original, productive research project, assisting in the preparation of an acceptable written dissertation, and administration of the final oral examination (aka: the dissertation defense).

The dissertation committee should be selected by the end of year two in residence and the first meeting held no later than six months after completion of Part 2 of the Qualifying exam, typically by the Fall of the third year. The committee is selected by the student in consultation with the dissertation advisor, following which the Dissertation Committee Selection form (available on the CB Program website) must be submitted to the CB Executive Committee for approval. Any later changes in the membership of the dissertation committee must be approved by the DGS and is subject to approval by the Executive Committee. Changes to the dissertation committee should be recorded on the Dissertation Committee Change Form (Laney Graduate School website) and submitted to the Laney Graduate School office.

The Dissertation committee must include (as a minimum) the dissertation advisor, plus four additional faculty members at least three of whom are members of the CB Program. If desired, one or more additional members may be drawn from the faculty of other programs in the Graduate School or from outside of Emory. The advisor plus any three members of the committee will constitute a quorum for the purposes of a meeting. The advisor must be present at all meetings, and ALL members must be present for the student’s dissertation defense.

2. Format of Thesis Committee Meetings

A student scheduled to meet with their committee should prepare a brief written summary (no more than 2 pages) of items to cover during the meeting and distribute it to their committee at least one week prior to the meeting. Rather than re-stating the entire project, this document should focus mainly on the outcome of experiments conducted/ updates since the previous committee meeting. This will help the committee to determine the extent of interim progress made, allow time for feedback prior to the meeting, and help focus the content of the meeting. The update should include any publications, abstracts, meeting presentations, and awards.

The format of the dissertation committee meeting will vary but typically will involve a concise presentation (typically 20-30 min) by the student of the hypotheses and overall objectives of the work, research progress to date, and some discussion of priorities and future plans. The presentation will serve as a platform for the committee to initiate questions and to openly discuss progress, research priorities and directions. If necessary, the committee will deliberate in private to determine if sufficient progress has been made. Specific goals for the next period will be discussed with the student and recorded on the Dissertation Committee Progress form (on the CB web site). The duration of a thesis committee is variable, but will typically last no more than 1.5-2hrs.

3. Frequency of Thesis Committee Meetings

The first formal thesis committee meeting must be held no later than six months after passing Part 2 of the Qualifying Exam, typically in the Fall semester of the third year. Thereafter, CB Program students are required to meet with their committee every six months, up to and including year five of graduate study. In the sixth and subsequent years, students are required to meet with their
committee at least every four months. A student’s research seminar in the Friday seminar class (CB 790r Advanced Graduate Seminar) can serve as the presentation portion of one of the two required committee meetings, and is in fact encouraged, as long as (1) the required committee quorum is present at the seminar; and (2) a meeting of the committee for directed discussion with the student occurs immediately or closely (within a week) after the formal presentation.

The Dissertation Committee should be considered a source of scientific and scholarly advice for the student, as such the student should feel free to convene a meeting with their committee or individual committee members at any time they feel additional support or direction may be useful.

An important function of the dissertation committee is to determine whether adequate progress is being made. Thus, the frequency of meetings may be increased at the discretion of the committee or at the request of the student at any time. In cases where student progress is deemed to be inadequate, the committee may opt to identify specific goals for the following period, which will be indicated in writing on the Dissertation Committee Progress form. If the committee subsequently determines that lack of progress is due to insufficient effort on the part of the student, this may constitute grounds for cancellation of stipend support or termination from the Program.

4. Documentation and Tracking of Dissertation Committee Meetings

The student should bring a Dissertation Committee Progress form to each meeting. This form (available on the CB website) must be filled out, signed by the committee members and returned to the CB Program Office immediately after the committee meeting. The completed form is placed in the student’s file and serves as a record to indicate progress in graduate research. The form also contains specific feedback to the student regarding goals to be accomplished before the next meeting. Committee members are strongly encouraged to fill out this section of the form as it has proven to provide useful guidance and tracking for the student. The DGS and Executive Committee will track compliance with guidelines for Dissertation committee meetings.

G. Student Responsibilities

It is the student’s responsibility to meet the Laney Graduate School and GDBBS requirements for a degree within a reasonable timeframe. All students should familiarize themselves with and adhere to the Graduate Student Honor Code as outlined in the Graduate Student Handbook. This deals with the professional standards and conduct demanded of all graduate students, as well as the procedures for reporting and adjudicating any violations. Continuance of stipend support is predicated upon satisfactory progress by the student toward a degree and adherence to the Honor Code.

PART IV. PROGRAM REQUIREMENTS

A. Coursework

All CB students take the required coursework in years one and two. This core curriculum is intended to give each student the necessary foundation to be successful in biomedical research, including graduate training in the basic sciences and formalized instruction in oral and written scientific presentations. Students may take additional coursework; the core curriculum is intended to indicate the minimum requirements for all CB students.

Each student in year two and beyond will have customized elective(s), agreed upon by the student and dissertation advisor. Students must take a minimum of one elective. Credits from Directed Study,
unless approved by the DGS, do not count towards the one-elective requirement. All CB students must register for, attend, and pass the weekly graduate student seminar series (CB790r Advanced Graduate Seminar), in both the Fall and Spring semesters until their dissertation defense is scheduled. Each student in year two and beyond is required to present their research results annually in this forum. A senior student who plans to complete their dissertation defense within a given semester may request to be excused from presenting in CB790r only if their scheduled seminar date is within three months of their dissertation defense date, and after consultation with the Course Director of CB790r. During the first two years of classes the students will be exposed to 8 hours of training in the area of scholarly integrity as part of the courses CB570r (year 1) and CB790r (year 2). The topics covered will include data management (0.5h), mentoring (0.5h), authorship (0.5h), peer-review (0.5h), collaboration (0.5h), human subjects (1h), animals (1h), scholarly misconduct (1h), conflict of interest (1h), ethics of teaching (0.5h), and public scholarship (1h).

Required Courses are marked in **BOLD**

NOTE ABOUT ELECTIVES: The list of available courses is continually changing so students must consult the current Laney Graduate School Course Atlas to obtain accurate information. Not every elective course is offered every semester or every year.

*Credits = Credits counting toward full-time status for that semester (must total at least 12 per semester)

**Credits to AS = Credits acknowledged by Laney Graduate School that count toward the 24 needed to achieve Advanced Standing.

**Credits to Cn = Course credits acknowledged by Laney Graduate School that count toward 16 needed to achieve Candidacy

***Credits for Fall Term Laboratory Rotations are awarded in Spring Term, when final grade is determined after completion of all 3 rotations.

# Students will be required to take two Elective courses totaling at least 7 credit hours in year 2 which will be applied toward their requirement for candidacy

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<th>Course name</th>
<th>Credits*</th>
<th>Credits AS**</th>
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<td>Principles of Basic Biomedical and Biological Sciences</td>
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<td>Cancer Biology I</td>
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<td>Introductory Graduate Seminar</td>
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<td>CB 597r</td>
<td>Laboratory Rotations***</td>
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<td>Principles of Basic Biomedical and Biological Sciences</td>
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<td>Part 1 – Qualifying Exam (May/June)</td>
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<td>Years-02-Spring</td>
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<td>Dissertation Research</td>
<td>variable</td>
<td>0</td>
</tr>
<tr>
<td>(to make total units = 12 per semester)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB 790r</td>
<td>Advanced Graduate Seminar</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

B. Grade Criteria

Grades in the Laney Graduate School range from A (4.0) to C (2.0) and F (0); there is no D grade. Some courses are taken on a Satisfactory/Unsatisfactory (S/U) basis. Advisors will assign grades in IBS699r (Advanced Research) or CB799r (Dissertation Research) and are encouraged to use grading that reflects performance and overall progress made each semester. Students must maintain an average of B (3.0) or better in coursework each semester. Students with a semester GPA below 3.0 will be put on academic probation, and be notified in writing of such by the LGS. Students on academic probation due to their grade point average have one semester to bring their grade point average above the minimum. Students who receive a grade of less than B in a required CB course will be put on academic warning in the program. They will be notified in writing by the Program Director and the DGS and the Executive Committee will be informed.

GDBBS policy dictates that a grade of U or F in any course, or a semester GPA below 3.0 in any two semesters, will result in dismissal. If a student who is dismissed believes there were extenuating circumstances that adversely affected his/her performance, he/she may submit to the division Director a written appeal for consideration of reinstatement. The appeal should clearly outline the extenuating circumstances and must be submitted within one month of grades being recorded by the Office of the Registrar. The GDBBS Executive Committee will review all appeals.

Repeat assessment of unsatisfactory progress by the student’s dissertation committee also constitutes grounds for termination from the Program.
C. Coursework Credit Hours (credits) – Requirements

Full Standing  The core curriculum in year 01 gives students the 24 credits needed to progress to Advanced Standing. At least 20 of 24 credits must be in course work other than Directed Study (597r or 797r), Advanced Research (IBS699r) or Dissertation Research (CB799r) and at least 14 credits at the 500 level or above. Credit from TATTO, Program for Scholarly Integrity (PSI 600), and any English as a Second Language (ESL) courses do not count toward a degree in either full or advanced standing years.

Advanced Standing  The Laney Graduate School requires a minimum accumulated coursework of 48 credits in Advanced Standing for the Ph.D.: 24 credit M.S. requirements or equivalent, 32 credits in Dissertation Research 799r, and 16 course credits in Advanced Standing. All 16 course credits must be at 500 level or above. Note: Following admission to Advanced Standing, a minimum of 48 credit hours must be accrued before a student may become eligible to advance to candidacy (see below).

At the discretion of the Executive Committee, a student may be admitted to Advanced Standing by fulfilling either of the following criteria: 1) after 24 semester-hours residence credit in full standing at Emory (usually two academic terms) or 2) entry into Laney Graduate School of Arts and Sciences with a Master's degree or equivalent in the same, or a closely related, field of study. In the latter case, the student must petition the Executive Committee to achieve Advanced Standing.

D. Residency Requirements (Same as Laney Graduate School requirements)

Full Standing  2 full semesters (minimum of 12 credits / semester)
Courses applied toward residency requirement must be on 400-level or above and exclude English language (ESL) classes and PSI 600 (Program for Scholarly Integrity).

Advanced Standing  4 full semesters (minimum of 12 credits / semester)
Courses applied toward residency requirement must be on 500-level or above and exclude English language (ESL) classes and PSI 600 (Program in Scholarly Integrity).

Candidacy  As soon as the requirements are met, students must submit the application for Admission to Candidacy form (available in the Division office and on the CB Program website) with the appropriate signatures. Under no condition should an application for Admission to Candidacy be filed less than one semester before the semester in which the PhD is to be awarded. To be eligible to advance to candidacy, 48 credit hours in Advanced Standing must be completed as detailed in Section C, above.
E. Examinations

1. Qualifying Exams

Part 1
Part 1 is a written examination of “general or background” knowledge and critical thinking, and is designed to test general knowledge of cancer biology and other basic biomedical sciences as laid out in general texts and covered in the core introductory courses of the Program. The goal of the Part 1 exam is to test both the knowledge base and critical thinking/writing of each student so that both the student and the Faculty can determine whether that student is prepared to progress in the Program. Hence, some questions on the exam may draw on specific information exposed to in classes or seminars, while other questions will require that students interpret and synthesize given data, propose hypotheses and describe appropriate experiments to test those hypotheses.

The Part 1 exam is given during May/June of the first academic year in residence and consists of a written examination of essay-type questions. The examination is closed book and is administered over the course of one day. The examination is prepared from questions solicited from the Program faculty and reviewed by the CB Executive Committee. At the end of the exam, each answer is independently evaluated by at least two faculty members who each assign a numerical grade. The exam consists in 10 questions covering the breadth of topics in cancer biology and related basic biomedical sciences. The students have to answer 8/10 questions. To pass the exam, students must (1) score 7/10 or higher on 6 out of the 8 questions they choose to answer and (2) receive a composite score of 70% or higher. At the consideration of the Executive Committee, a student failing to achieve these minimum standards will be allowed one re-take of the exam. The student must have achieved at least a 60%, and the exam must be held within 1 month of having failed the 1st exam. The re-take decision will be based on the exam as well as the student’s overall performance in the program to date. The retake exam will be an oral examination by 4 members of the Executive Committee and the student will pass if no more than one of the examiners disapproves. Students who fail the second attempt will be dismissed from the Program. A passing score on Part I of the Qualifying Exam is required for a student to proceed to Part II.

Part II
Part II of the qualifying examination takes the form of an oral examination consisting of the oral defense of a written research proposal and an oral examination to evaluate the students’ mastery of scientific concepts, including material covered in Part 1. The exam is designed to assess the student’s ability to integrate different aspects of the first two years of graduate training: including lab work, data interpretation, hypothesis development, research design, presentation of research, and mastery of required CB coursework. As such, questioning will draw on aspects of the scientific principles, knowledge of the pertinent literature and defense of the hypotheses and experimental design as laid out in the written proposal, but will in addition more broadly address the student’s mastery of relevant scientific concepts. In addition to possessing a broad range of facts and knowledge, the student must demonstrate an ability to synthesize information and display systematic reasoning skills. The exam must be completed before the end of June of the student’s second year in residence.

The written proposal should focus on the student’s dissertation research and must be distributed to the Oral examining committee at least one week prior to the oral examination and should be written in a format similar to that of an NIH or other fellowship application (i.e. specific aims, significance, innovation, research design and methods). The inclusion of preliminary data in support of the proposal is optional, but can include the student’s own data or that generated by the lab. The purpose
of the proposal and defense is not to determine the ultimate content of the student’s doctoral dissertation. Thus, the student should be less concerned with preliminary data than with the knowledge of theoretical and technical issues related to the proposed studies. Although the written proposal helps to focus the first part of the oral examination, it is not evaluated per se by the committee.

The examination will begin with the student providing a 5-10 minute overview of their current research using the dry ink board (no slides/overheads). The examination then follows an Oral examination format in which each committee member is given up to 10 minutes to ask any question they deem appropriate, without interruption by other committee members, followed by 5 min open examination by all members of the committee as follow-up. This format continues until each of the four exam committee members has had the opportunity for two 10 minute periods in which to ask questions (i.e. twice around the table, for a total of no more than two hours (8 x 15 minutes). The first round of questioning will constitute the defense of the written proposal, whereas the second round will more broadly assess mastery of scientific concepts and synthesis as laid out above. The student or any member of the committee may call for a 5-10 minute break between rounds. The second round of ten-minute question periods per committee member may be shortened at the discretion of each committee member.

A committee consisting of three members of the standing Oral Exam Committee and one CB member chosen by the student will administer the exam. One member of the standing committee will serve as Chair, and is responsible for being fully apprised of all rules surrounding the exam. Prior to the start of the exam itself, the Chair of the Examining Committee will describe to all the purpose of the exam, the rules of engagement, and the criteria by which the evaluation will be performed. The research advisor will be present for the exam but their participation will be restricted to time keeping and observation. The advisor will not participate in the examination or discussion of outcome.

Following the completion of the oral examination, the student and advisor are excused from the room and the student’s performance discussed by the committee. At least three of the four voting members of the examination committee must cast a passing vote in order for the student to pass the exam. The entire committee informs the student of the results of the exam the same day. In the case of a failed exam, the Executive Committee will decide whether the appropriate response is to allow the student to re-take the exam or there is sufficient cause for termination from the Program. In general, students who required two attempts to pass Part I of the qualifying exam must pass Part II of the qualifying exam on the first attempt and will not be given an opportunity for re-take. If a re-take is proposed, it must be scheduled to occur within 30 days of the original exam. Any student failing the re-examination will be dismissed from the Ph.D. program but may, with the approval of the examination committee and advisor, petition the Executive Committee to change their course of study to one of a terminal Master’s degree.

2. Application for Admission to Candidacy, Doctor of Philosophy

This application must be made as soon as preliminary requirements are met (course work, language examinations, qualifying examination). Under no condition should an application for Admission to Candidacy be filed less than one semester before the semester in which the Ph.D. is to be awarded. The Admission to Candidacy form is available in the Division office and on the CB Program website.

3. Dissertation
Upon anticipated completion of the student’s research, a meeting of the dissertation committee should be held to discuss the acceptability of the completed research. If the committee agrees that the body of work is acceptable, the student may then begin to write the dissertation. It is expected that the dissertation research will result in one or more first authored, peer-reviewed publications.

Instructions for formatting (e.g., font, margins, figures, etc) can be found on the Laney Graduate School website. The written dissertation must conform to Laney Graduate School Guidelines, but in general will consist of an original account of the background, approach, experiments, and conclusions of the research. The classic format would include an Abstract, Introduction/Objectives, Methods, Results, Discussion and References sections. Alternatively, the work may be presented as a series of manuscripts (published or unpublished), each of which has its own Introduction, Methods, Results and Discussion Sections. In this latter case, a general Introduction and general Discussion should be added. The dissertation committee should agree on the format of the dissertation before it is written. After the dissertation has been read and approved by the advisor, a copy must be submitted to all members of the dissertation committee at least two weeks prior to the oral defense date.

A maximum period of six months is permitted between the time a student receives formal approval from their committee to write and the actual defense date. Should the student exceed this time frame, another dissertation committee meeting and a new approval form are required. An Application for Degree form (available on the GDBBS website) must be completed and submitted to the Graduate Division Office in the semester in which the defense will take place. The student must make petitions for exceptions in writing to the CB Program Director and DGS.

Any later changes in the membership of the dissertation committee must be approved by the DGS and is subject to approval by the Executive Committee. Changes to the dissertation committee should be recorded on the Dissertation Committee Change Form (available on Laney Graduate School website) and submitted to the Laney Graduate School office.

4. Oral Defense of the Ph.D. Dissertation

As a final requirement, the candidate must orally defend the dissertation before the dissertation committee, the CB Faculty, and other interested members of the University. The student schedules the final oral examination (defense) with the approval of the thesis committee. At least two weeks before the defense, the student must submit a completed flyer for the announcement of the defense, in electronic format, to the Program Administrator. The flyer will be used to notify the CB Program membership through its email listserv, and it will be forwarded to GDBBS for inclusion in the division event announcements. A sample of this Thesis Announcement flyer is available on the Program website.

The dissertation defense consists of two sections. In the first part, the student presents a formal seminar, advertised and open to the public. The seminar is up to 50 minutes in length and must allow time for questioning from the audience. The advisor will chair the oral defense. The advisor will outline the format of the defense and introduce the student and their research in a manner similar to other seminars. The atmosphere should be one that encourages critical questioning so that the student can demonstrate their expertise in an open forum. Care should be taken to preserve the formality of the occasion. At no time should the student or members of the audience be led to believe that a pass is automatic. After the presentation, the committee, other members of the faculty and the audience question the candidate on matters related to the dissertation research to assess the thoroughness of the candidate’s knowledge and the quality of the work.
Following the public examination, the dissertation committee will continue the examination in private. The candidate is expected to be an authority in his or her research area, and successful defense of the dissertation requires the oral demonstration of that expertise. The committee will assess the success of the defense. After the student has been dismissed, the student’s performance will be discussed and evaluated by the committee. If the committee decides that the student has not met the criteria for a successful defense, the committee has discretion to decide on how to proceed. In most cases, minor revisions to the written dissertation document will be made following the defense and overseen by the dissertation advisor. However, if substantial revisions to the dissertation revisions are required, final approval of the dissertation will be delayed until the committee approves such revisions.

Unanimous approval of both the written dissertation and the oral defense by the thesis committee members must be obtained prior to submission of the dissertation to the Laney Graduate School. If the committee is not unanimous, the Executive Committee will determine the acceptability of the dissertation project. The decision to award the degree must be unanimous.

Attendance by the thesis committee members is sufficient for the Master’s thesis presentation. The successful defense of the thesis is determined by a vote of the thesis committee.

5. Report of Completion of Requirements for Doctoral Degree

Upon completion of a successful dissertation defense, the student must complete and submit the Degree Clearance form. This form, available from the Laney Graduate School office, the Division office or on-line at the CB Program website, must be signed and returned to the Division Office.

F. Master’s Degree

The CB Program is a doctoral program and as such does not normally support work toward a terminal degree of Master of Science (MS). However, under certain circumstances, a student may request permission to terminate graduate study by completing the requirements for a Master’s degree. These include, for example, failure to pass Part 2 of the Qualifying exam. Based upon the student’s performance, as assessed at various times during the degree program, the Executive Committee may also recommend such action. The request to seek a terminal Master’s degree should be made in writing to the Program Director. The Executive Committee in consultation with the dissertation advisor will make the decision. It should be noted that there is no guarantee of continued stipend support once a student has declared an intention to seek a terminal Masters degree.

Students may declare their intention to seek a Master’s degree only after having passed Part 1 of the qualifying exam. When a student declares after passing Part 1, he/she should immediately discontinue enrollment in didactic coursework and Teaching Assistant Training and Teaching Opportunity (TATTO) activities. To remain in standing as a full-time student, the student must continue to enroll for the required number of credit hours of dissertation research. The student will have a maximum of one year from date of declaration (i.e. the end of the Spring semester of year 3) to complete the requirements for the Master’s degree.

When a student declares an intention to seek the MS degree during the third year in residence, (i.e., after successful completion of Part 2 of the qualifying exam) and having met all requirements for the doctoral program up to that point), the student must complete the requirements before August 1 of the third year in residence.
If a student has been in residence for three years or more, having met all requirements for the doctoral program up to that point, and then declares for the MS, the student will have three months to complete the requirements for the MS. Students who have declared their intent to pursue a MS degree but fail to meet the requirements within the specified time will not be eligible to receive stipend support from any source, and will be asked to leave the Program.

Requirements for the MS degree include satisfactory completion of all required coursework, passing Part 1 of the qualifying exam, completion of a written Master’s thesis, and an oral defense of the thesis research. Students seeking an MS degree are not required to participate in the TATTO program. A master's thesis committee must be formed as described for the thesis committees in the doctoral program. The master’s thesis must represent a scholarly body of work indicating a rigorously applied research effort and must minimally describe the significance of the research proposal, the hypotheses being tested, the experimental approach(es) undertaken, any data generated, conclusions drawn, and a proposal for future work. Both the written master’s dissertation AND its oral defense must be passed by the master’s thesis committee before a degree is awarded. The decision by the master’s thesis committee to award the degree must be unanimous.

Upon completion of all of the requirements, the student must complete a Report of Completion of Requirements for Master’s Degree, which the members of the dissertation committee must sign indicating their vote. The Program Director or Director of Graduate Studies must also sign this form. An Application for Degree form must also be completed and submitted to the GDBBS. These forms are available from the Laney Graduate School, the GDBBS office or the CB web site. Both signed forms must be returned to both the Division Office and the Laney Graduate School.

G. Changing Advisor

While it is expected that most students will continue their research work with their faculty advisors until they complete their PhD degrees, this relationship may be ended at any time, and by either party (student or faculty). Should this occur, the student and the advisor should contact the DGS immediately. The DGS will then serve as an interim advisor during a transition period while the student identifies a new advisor. During this period the existing dissertation committee will continue to serve to help guide the student through the transition. The length of the transition period should be as short as possible, consistent with the ability of the student to make a careful choice of a new advisor, but must not exceed sixty days.

It is the primary responsibility of each student to have an advisor, as the advisor and their lab resources are essential requirements for the student to make scientific progress. If a student who has completed at least three rotations is unable to find any member of the GDBBS faculty who will agree to serve as advisor, and this status lasts more than thirty days, then that student will be considered unable to make satisfactory degree progress and may be terminated from the Program after review by the Executive Committee.
H. Grievance Policy

Students who have a grievance related to some aspect of the CB program should report it to the Director of Graduate Studies. The student should describe the grievance and relevant details in a letter addressed to the DGS and copied to the program Director. The DGS will try, if possible, to resolve the grievance in conversation with the student and relevant parties. If this is not successful, the CB program Director will appoint a committee of three CB program faculty members (or faculty members outside the CB program if the situation warrants) or use the Executive Committee, who will review the grievance and propose an appropriate response. If it is impossible to resolve the grievance within this committee or within the framework of the CB program administrative structure, the Director will forward the grievance to the Office of the Senior Associate Dean of the Laney Graduate School. From this point forward, the grievance will be handled according to the Grievance Procedure outlined in the Laney Graduate School Handbook. If the issue is with the DGS, the student should send the letter directly to the CB program Director. If the issue is with the program Director, the student should go directly to the Senior Associate Dean of the Laney Graduate School.

PART V. OTHER ACTIVITIES

A. Teaching Experience

The Laney Graduate School requires each student to serve as a Teaching Assistant (TA) for at least one semester during their graduate career, usually during the second year. The primary purpose of the teaching experience is to aid students in strengthening organization and communication skills. Prior to beginning the teaching experience, students are required to participate in the Teaching Assistant Training and Teaching Opportunity (TATTO) course. If the student has had substantial teaching experience he/she may request to have the requirement waived. See the TATTO coordinator in the GDBBS office for further details on how to document your experience.

Teaching opportunities for GDBBS students vary by the type of course, amount of responsibility, and time commitment associated with the teaching assignment. Teaching experiences range from overseeing one component of a laboratory course meeting once each week to co-teaching an undergraduate class with one or more professors. Students are encouraged to state a preference for the type of assignment.

For students wishing to gain more pedagogical experience, additional teaching opportunities are available beyond the one-semester requirement, some of which may provide additional academic credit or a small additional stipend.

B. Seminars, Journal Clubs, and Symposia

Seminars hosted by a variety of programs and departments, are given by invited speakers throughout the academic year. Students are encouraged to participate in the scientific discussions and, when possible, arrangements are made for students to meet with guest speakers. In addition to the numerous seminars, other opportunities to participate in scientific discussions include journal clubs, data clubs, and yearly student-organized and run CB and GDBBS symposia. Attendance and participation at the Winship Cancer Institute Scientific Symposium is mandatory for all CB students and attendance at the annual GDBBS symposium is very strongly encouraged. These activities are not eligible for formal credit, but add to a well-rounded graduate education and should be viewed as an opportunity to learn about work in other fields.
C. Regional and National Scientific Meetings

Students are encouraged to present their research at regional and national scientific meetings. Some travel money is available for students making presentations at open meetings. These travel awards are given no more than once per student per year (September 1 – August 31). Applications for support should be made to the Graduate Student Council, the Division and the Program. Forms are available on the CB web site.

D. Vacation and Leave

The course of study and graduate student stipend are based on a 12-month commitment. It is expected that students will take no more than two weeks of vacation, in addition to University holidays each year. Note that breaks in course work (Fall or Spring break, Christmas/New Year’s - beyond the official university holiday days, and summers) are not holidays for graduate students. First-year students are required to schedule in advance any planned absences with the DGS and the faculty member in whose lab they are working. Unscheduled absences or excessive vacation time will result in a stipend reduction and/or possible suspension from the Program.

E. Parental Accommodation Policy

This policy is for students with substantial parenting responsibility as a result of childbirth, care of newborn, or a newly adopted child. This policy guarantees PhD students a minimum level of accommodation during the transition to parenthood. The caregiver designated as having substantial parental responsibility may be relieved of full-time graduate duties and responsibilities for up to eight weeks after the birth or adoption of a child. Up to four of those weeks may be situated before the anticipated birth or adoption date. Form and instructions for Parental Accommodation Request is on the Laney Graduate School website.

F. Other program activities

The students in the graduate program in CB are an integral and vital part of the CB community. As such, they are encouraged to participate in diverse activities such as help with the annual new student recruitment process, participate in the program annual retreat and other social events that build community and create professional networking.

PART VI. CB GUIDELINES FOR THE COMBINED M.D./PH.D. DEGREE PROGRAM

A. Participation in CB Program

MSTP students choose a dissertation advisor and a graduate Program under the guidelines of the MSTP. Unless otherwise specified, the MSTP student is expected to fulfill all the program and LGS requirements for the Ph.D. degree and to participate fully in the CB Program as outlined above. MSTP students are subject to the same rules outlined in the CB Guidelines. Because MSTP students enter the CB program in the middle of the M2 academic year, the course of study differs from that of PhD-only students. Curriculum guidelines are described below, but it is important that new students meet with the Director and/or DGS to assist in the development of a personalized training plan.
B. Coursework requirements

MSTP students are admitted to the graduate Program in Advanced Standing and are expected to start graduate coursework/rotations in the Spring semester of the M2 year, in accordance with MSTP program guidelines. Under normal circumstances, specific core courses (e.g., IBS 555, IBS 556) in the first-year graduate requirements are waived. MSTP students are required to take the CB core coursework, including Cancer Biology I and II (IBS523/IBS524) and Cancer Pharmacology (IBS761). MSTP students are encouraged to fulfill the Cancer Biology II requirement during the Spring M2 semester. MSTP students should also be enrolled in Advanced Graduate Seminar (CB790r) throughout their graduate training, including the Spring of the M2 year.

Requests for exceptions to these course requirements must be submitted in writing to the Program Director and DGS of the CB Program and will be evaluated on a case-by-case basis.

C. Teaching Requirement

The teaching requirement of the Laney Graduate School is to be fulfilled by the end of the G2 year. Exceptions to meet this requirement beyond the G2 year will be granted on a case-by-case basis.

D. Timing of Qualifying Exams

Part 1 of the Qualifying Examination will normally be taken at the end of the MSTP student’s first year in graduate residence (i.e. at the end of G1), with the first year PhD students. Part 2 of the Qualifying Exam will be completed by the end of June, approximately one year after completion of the Part 1 exam (i.e. at the end of G2), on schedule with the 2nd year graduate students. Policies regarding the requirements for passing the exam and mechanisms for re-examination and appeal are as described above for the Ph.D. students.

E. Length of Time to Degree

MSTP guidelines encourage the completion of the Ph.D. portion of the degree in three years. While every effort will be made to meet this guideline, it should be recognized that the student is expected to complete a dissertation based upon original research, and that this dissertation must meet both the MSTP and CB standards as outlined above. Expectations regarding authorship on publications or other standards for the PhD degree must meet or exceed those set by both programs. Consequently, it may be necessary to extend the degree program beyond the three-year guideline.