

## **A Mastery Learning Option for Independent Schools**

### Introduction

*It was such a small mosquito bite. Ansley, her parents, and even the physicians could not anticipate that the bite would lead to encephalitis for fifteen-year-old Ansley. The recovery was slow--over six months. Ansley had been a straight A student at a competitive private school for six years. Before her illness she and her parents had planned her path from high school, to a challenging liberal arts college, and then on to med school. How was the school to respond to her to help her catch up, complete her credits, and start her junior year on time?*

*Chris's mother was driving him home from a football game at his private school when a drunk driver plowed into the passenger's side of their car. Chris underwent three surgeries to repair his shattered right femur. President of the Student Council and the quarterback of his team, Chris had been an academically gifted, popular student for eleven years (twelve years counting Pre-K), and now he would miss six-eight weeks of school recovering from his injuries. He would miss additional classes for physical therapy following that. How could his school help him complete his junior year on time? How could the school award Carnegie Units with so many absences?*

### A Statement of the Problem

Most private schools across the South face similar situations like those above every year. Families have children who sustain injuries or contract serious illnesses. Students develop chronic diseases like Juvenile Diabetes, Crohn's Disease, asthma, and other disorders. Such students often overtax the school's tutorial system and pose problems for administrators who must wrestle with the difficulty of how to award Carnegie credits when the middle school or high school student has not met the attendance requirements even though the student may have earned a passing grade.

Other problems arise also, like serious illnesses of a parent or another family member, deaths in the family, or divorce of the parents may also adversely affect school attendance,

achievement and overall progress for students. For these and other reasons affecting a student's attendance and progress, independent schools can lose families who may be leaders in their school communities despite the school's best efforts to meet the students' needs.

Part of the problem facing many schools is the requirement that the student be present in the classroom for 120 hours to earn one Carnegie Credit. American public and private schools have had few formal options, e.g., summer school, grade recovery, and virtual learning, to respond effectively to these crises that occur in many children's lives. The Carnegie Unit, an academic accounting system has been around for over a hundred years. It brought "efficiency and standardization," as Tyack and Tobin remind us, to American colleges and high schools in the early 1900's (457). The Carnegie Unit also became part of what Tyack and Tobin call the "grammar of schooling," which influences time, subjects, and academic credit in collegiate and secondary education (457). Based as it is on seat time in the classroom and a passing grade, the Carnegie Unit, can also bring rigidity for students and teachers. Additionally, the Carnegie Unit redefined the "normal student" as "one who progressed at the regular pace demanded by the imperatives of the graded school" (Tyack and Tobin 459).

Given the research of the last century on human learning, adolescent development, and other topics related to the granting of academic credit, as well as the many circumstances that can complicate a teen's orderly progression through high school, is it not time to consider additional options for granting credit to students in certain situations?

The following review of the history of the Carnegie Unit and a reevaluation of Mastery Learning through individualized instruction--an approach which privileges mastery of the curriculum over time in the classroom--may suggest an innovative option to the problem encountered by many private schools with awarding credit to students who have gotten behind because of illness, accidents, and other understandable reasons. This study is narrowly focused on the benefits of a supplemental mastery unit for secondary school students provided through individualized instruction.

### The Development of the Carnegie Unit

In 1892 a group called the "Committee of Ten" led the collective effort of American educators to systemize the then chaotic variety and quality of American schooling. Appointed by the National Education Association, the ten educators were primarily college presidents,

professors, or heads of secondary schools. Our country was changing from a primarily agrarian society to a more urban one. The Committee of Ten wanted to be able to quantify schooling, establish a canon of essential subjects, and provide a means of measuring what was learned for an increasingly mobile population. English, Mathematics, Physics, Chemistry, Astronomy, History, Latin, Greek, the Modern Languages, Natural History, Civil Government, Political Economy, and Geography were the major disciplines of knowledge, in their new, almost cursory nod to the arts and music.

Each member of The Committee of Ten chaired a subcommittee on one of the essential subjects. The President of Harvard, Charles W. Eliot, chaired the effort, and appeared to have been an active participant. The Committee primarily represented the Eastern United States, except for the presidents of the University of Colorado, the University of Missouri, and Oberlin College. What eventually became known as the Carnegie Credit Commission was appointed to study the problem of the uneven shape of the American secondary school and curriculum and recommend a solution (Tyack and Tobin). The members came to recognize the need for a unit of credit, some way of quantifying instruction. The commission was funded by a generous grant from the Carnegie Endowment for Education, and in time the unit of credit they developed came to be known as the “Carnegie Unit.” The commission struggled to find commonalities across the subject matters of instruction. They decided to base their unit on *time in class*. So many clock hours of instruction by a qualified teacher and a passing grade would earn a student one unit of credit in that subject.

While The Carnegie Foundation for the Advancement of Teaching did not directly develop the idea of the unit, it did contribute substantially to its acceptance. When The Carnegie Foundation was established in 1906, Andrew Carnegie gave \$10,000,000 to fund retirement pensions for college professors (Shedd 7). The Foundation wanted precise definitions for such terms as *college*, *university*, and *professor*, among other terms (Shedd 7). The whole process of establishing standards for what constituted a college eventually led to the need to establish standards for high schools that fed into colleges. The “Carnegie Unit” for the colleges receiving Carnegie pensions for their professors was defined and accepted formally in 1909 (Shedd 7). By 1910 almost all high schools measured academic work by Carnegie Units (Shedd 8).

The Committee of Ten’s curriculum thus became the great standard for systemizing the high school education of Americans. As the country grew, American schools were

increasingly organized around the goals of this Committee of Ten, and high school administrators soon reported their students' grades in terms of Carnegie Units. The system was established by 1910 and has changed little since that time. With this system, however, it was assumed that some students would pass, and others would fail. Many Americans accepted it as a given that some students would drop out of high school. There were, however, educators with more progressive ideas who thought differently about learning and the awarding of academic credit. One of those ideas was Mastery Learning.

### A Brief History of Mastery Learning

The concept of learning for mastery has been around in human societies for millennia. From classical civilization to the present, organizations requiring their members to have a high level of skill in one or more areas, usually "applied skills," have gravitated to the idea of learning to a standard of mastery for all their senior members, and to a more modest (but demanding) level of mastery for "journeyman" or "initiate."

In the modern era, several names stand out among many thinkers who came to mastery learning with their own ideas following their own path. Maria Montessori, for example, was not only the first female physician developer in Italy, she was also the originator of a brilliantly effective system for educating the very young. The system, which she originated in the tenements of Rome and in other Italian cities, now flourishes worldwide, especially in early education. Children are led to master fundamental concepts through the pervasive Montessori culture and materials as instructed by caring adults.

A second pioneer in Mastery Learning is the American psychologist and educator, Jerome Bruner. A strikingly original thinker, Bruner is a brilliant synthesizer of the work of many others in his own and other fields. Bruner's groundbreaking work *The Process of Education* (1960) suggested memorably that "any subject can be taught to any student at any age in some form that was honest, given the appropriate materials and approach" (qtd. in Bruner's *Culture of Education* 1996: xii.)

Bruner's *The Process of Education* and his other texts in learning and cognition became seminal works for American educational reformers dissatisfied with schools as they were. All over America and elsewhere in the English-speaking world, new schools began springing up with innovative ideas about teaching and learning. In time many of these

schools became members of a national organization dedicated to school reform, the Coalition of Essential Schools, founded by the former Harvard Dean, TedSizer.

Another innovator in Mastery Learning was the originator of scouting, Arthur Baden-Powell. His idea was to develop in young men (and later, in young women) the qualities of character and self discipline, as well as highly effective knowledge of and skills in outdoor living, camping, nature study, hiking, bird study and wilderness survival, among others. The newcomer to scouting, called a “tenderfoot,” was required to learn an increasingly progressive body of information and develop skills as he rose through the ranks, principally by earning “Merit Badges” in many areas of knowledge. A pupil read and studied with another, usually older, scout or assistant scoutmaster who had himself mastered the skills demanded by the badge. Promotion within the Scout Troup was tied to merit badges earned.

One of America’s leading educational psychologists and statisticians, University of Chicago’s Professor Benjamin Bloom, became interested in learning for mastery in the 1950s. The highly respected Chief of Evaluation at the University of Chicago, Bloom proceeded to question almost everything having to do with school learning. He was especially concerned that instruction should be shaped to fit the personality and abilities of each student. Bloom argued that “students differ in the rate at which they can learn-not in the level to which they can achieve or in their basic capacity to learn...as many as 90 percent of the students can learn these school subjects up to the same standard that only the top 10 percent of students have been learning under usual conditions” (1981; 18). Bloom observed that students’ academic learning closely followed a “normal distribution or bell-shaped curve,” however, in the traditional school setting (Zimmerman and DiBenedetto 208). Bloom asked that educators reconsider the assumptions, fundamental ideas, and benefits of Mastery Learning.

Eventually, with Bloom’s *A Taxonomy of Educational Objectives* (1956)-- a masterful trilogy addressing the cognitive, affective, and psychomotor domains--educators now had a systematic set of tools for categorizing and shaping curricular and other objectives of schooling. An exceptionally orderly, rigorous and insightful researcher and writer, Bloom worked at the problem of organizing learning into hierarchical categories in which basic skills like getting the facts are seen as underlying higher skills like analysis and synthesis. Bloom studied the learning experiences of children in actual classrooms and was struck repeatedly by how many students were not learning. Bloom formed his revolutionary postulate that “special conditions have been discovered under which both the level of learning and the rate of

learning become much the same from student to student” (1981; 18). This observation, as one will note, closely paralleled that of his colleague Jerome Bruner.

While some educators looked to Mastery Learning as a way to create more effective schools, the attempt to implement Mastery Learning in the public school classrooms encountered difficulty. Trying to teach all students in large group settings to mastery at the same time ran squarely into problems with student time use, scheduling and teachers’, parents’, and administrators’ fixed ideas about schooling. Teachers struggled with implementation of Bloom’s ideas in groups because students did not learn at the same rates, and students did not all work effectively outside school. Nonetheless, Bloom persisted, predicting that with mastery learning “individual differences in students’ achievement would diminish” and that 90% of those taught using the Mastery Learning approach could achieve at a level reached only by 10% of the students taught through traditional teaching practices (Zimmerman and DiBenedetto 2008). His provocative collection of essays, *Mastery Learning*, which provided a new way of looking at American education, challenged educators to find ways to teach to mastery.

### Bloom’s Model for Mastery Teaching

The teacher follows a simple procedure in preparing to teach a course for mastery using Bloom’s four components: defining mastery, planning for mastery, teaching for mastery, and grading for mastery (Schunk 200). The first step is to decide with the student and dean or headmaster exactly what the course will cover -- which concepts are to be learned and what skills are to be developed. Mastery is defined in step one. The teacher should then divide the course into small units, each with associated learning materials and assignments. This process is called planning for mastery. Next there needs to be an appraisal of what the students already know, so that they are working at the most effective level. Many mastery teachers find that having a textbook or CD as a required base for the learning unit gives students, parents, and teachers a helpful structure and assurance. We suggest these steps to prepare to teach a course to an individual high school student. Then the teacher begins to teach for mastery.

The fourth step—grading for mastery—involves the Bloomian assessment or evaluation model. Professor Bloom stipulated two kinds of evaluation, *Formative* and *Summative*. Formative evaluation seeks to establish what the student has learned, and what still must be

learned. Summative evaluation is the final assessment. It is usually an examination, but it could also be a research paper, project, art portfolio, etc. The summative evaluation depends on the course, the teacher, and the student. Bloom's process for mastery learning through individualized instruction might look like this:

- Determine the course to be taught individually for mastery
- Meet with the student and agree on expectations
- Break the course into smaller units of about a week's worth of work per unit. (Thus an 18-week semester might have 18 units.)
- Each smaller unit should provide reading, math, viewing or listening homework assignments, which can be done at school if need be. The assignments are divided into clumps for expected daily work.)
- List what is to be learned in each section and determine how the student will be tested or evaluated on the material.
- Direct the instruction by explaining, correcting work as it is done.
- Help the student connect ideas of the smaller units to each other and to what has already been learned.
- Provide formative evaluation or tests, requiring 90% (BFA's passing grade) to move on. Formative evaluation also involves work, in which the instructor looks for the qualities stated in the course objectives, such as clarity, grammatical correctness, form of expression, etc.

There may be at least four occasions for such formative evaluations:

1. A Pretest over course material (This can be an informal evaluation or a more formal computerized or paper/pencil test.);
2. A Formative Evaluation at the end of each unit, covering the material that has been learned;
3. A Mid-Term Exam to make sure the student knows and remembers what was to have been learned to that point; and
4. A Final Exam that covers the material of the course and provides evidence of the student's ability to analyze and apply the new knowledge.

Along with this formidable evidence that the student has, indeed, learned the material, a teacher can answer any skeptics with facts – high marks and a folder/portfolio of the student’s work showing how much actually was accomplished--beyond just the tests, which are convincing enough. Bloom’s four-step Mastery Learning process has been a highly effective method for teachers to follow. Students can demonstrate what they know, and teachers are not restricted in the materials or mode of instruction best suited for an individual student’s learning style.

### Mastery Learning After Bloom

Following Bloom, educational researchers and graduate students found Mastery Learning a favored research topic. They constructed and carried out mastery learning studies, primarily in public schools. Guskey and Gates published a follow-up review of Mastery Learning studies entitled “A Synthesis of Research on the Effects of Mastery Learning in Elementary and Secondary Classrooms” (1986).

After Bloom’s pioneering work, his pupils explored two questions: “Will Mastery Learning work?” and “Will Mastery Learning work in public school settings?” The early studies focused on these questions with primarily elementary and secondary school students. Some studies, however, looked at college freshmen introductory courses. While these studies seem informally positive about Mastery Learning, their subjects are, as pointed out earlier, outside the very limited focus of this paper-- individually-paced Mastery Learning in independent schools.

### Mastery Learning for Students in Independent Schools: The Ben Franklin Academy and Emory University Reading Center Experience

Ben Franklin Academy grew out of the former Emory University Reading Center and Catch-Up School. From 1960-1987, students from around the Southeast who had fallen behind in school--usually as a result of some academic difficulty, illness, or family disturbance-- would often be referred to the Emory University Reading Center and Catch-Up School. Our task would be to help them complete or supplement their coursework. We would work one-to-one with the student, and, upon mastery of the agreed-upon assignments, we would report the student’s progress to the school.



When we became Ben Franklin Academy in 1987, we continued our catch-up and accelerated work with high school students. As an independent school separate from Emory, we were able to seek SACS accreditation for our school and apply what we had learned about mastery teaching to the University of Georgia Board of Regents' College Preparatory Curriculum.

Our first graduate, in 1987, attended and graduated from Georgia Tech. Subsequent BFA graduates are accepted by and attend colleges and universities across America and abroad (See list.). These acceptances answer the question, "Can my teen get into college with credits from a school that offers Mastery Learning?" SACS accreditation was granted to us in 1994, and we regard accreditation as essential for a school that offers individualized instruction and continuous progress.

From spring, 1987, to the present, BFA has graduated over 1200 students. We have received generous support from the Atlanta educational, financial and foundation communities, who understand that such an educational option can be highly useful to families in independent schools.

### Conclusion

At one time or another, most headmasters of independent schools are faced with the dilemma of a valued student who falls far behind classmates because of serious illness, injuries, debilitating family problems, divorce, etc. The list is long. Our society poses many challenges to students and those who rear and educate them.

The Carnegie Unit, as we said earlier, requires a total amount of "seat time" for credit in a course. In the Carnegie system it is possible for a student to make an A on the final exam and still not get credit because she/he has not attended class enough or turned in the right amount of homework. In Georgia and elsewhere, the state mandates a certain number of credits (Carnegie Units) in order to graduate. Other expectations are set forth by individual colleges and the University of Georgia's Board of Regents, who stipulate course credits that a student must have for a college preparatory diploma in Georgia. Essentially, these are very similar to the subjects that were recommended by the Committee of Ten over a century ago. A student who lacks any of these credits is said to be "deficient" or "to have a deficiency." Such a student can make up the deficiency in summer school or some other way, but college preparatory independent schools are understandably reluctant to grant diplomas unless students meet their standards.

We propose that students who are deemed eligible by their headmaster for accepted reasons like serious illnesses and injuries, death in the family, etc. be allowed to earn credit for high school courses through individualized instruction using the Mastery Learning approach, which is based on work accomplishments and the demonstration of solid knowledge.

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## SELECTED COLLEGE AND UNIVERSITY ACCEPTANCES

Adelphi University	Florida A&M University	New England College	University of Alaska-Anchorage
Agnes Scott College	Florida Atlantic University	New York University	University of Alaska-Juneau
Alabama A & M University	Florida Institute of Technology	North Carolina State University	University of Arizona
Albion College	Florida International University	North Georgia College & State University	University of California-Davis
Albright College	Florida Southern College	North Georgia Technical Institute	University of California- Santa Barbara
American International College	Florida State University	Northeastern University	University of California-Santa Cruz
American University	Fordham University	Northern Arizona University	University of Chicago
Andrew College	Franklin Pierce College	Northwestern University	University of Colorado-Boulder
Antioch College	Friends World Program of	Oglethorpe University	University of Colorado-Colorado Springs
Appalachian State University	Long Island University	Ohio State University	University of Colorado-Denver
Arizona State University	Full Sail University	Oregon State University	University of Connecticut
Armstrong Atlantic University	Furman University	Oxford College of Emory University	University of Dayton
Art Institute of Atlanta	George Mason University	Pace University	University of Denver
Auburn University	George Washington University	Paine College	University of Georgia
Augusta State University	Georgia College & State University	Pennsylvania State University	University of Hawaii-Hilo
Babson College	Georgia Gwinnett College	Pepperdine University	University of Hawaii-Manoa
Bard College	Georgia Institute of Technology	Philadelphia University	University of Kentucky
Barry University	Georgia Southern University	Piedmont College	University of Miami
Barton College	Georgia Southwestern State University	Pierce College	University of Michigan
Belmont University	Georgia State University	Pitzer College	University of Minnesota, Twin Cities
Beloit College	Gettysburg College	Plymouth State College	University of Mississippi
Bennington College	Gordon College	Point Park University	University of Missouri Columbia
Berklee College of Music	Goucher College	Pratt Institute	University of Montana
Berry College	Grambling State University	Presbyterian College	University of N. Alabama
Bethun-Cookman College	Green Mountain College	Prescott College	University of N. Carolina-Asheville
Birmingham-Southern University	Grimmell College	Purchase College	University of N. Carolina-Charlotte
Boston College	Guilford College	Quinnipiac University	University of N. Carolina – Greenboro
Boston Conservatory	Hamilton College	Randolph-Macon College	University of N. Carolina-Wilmington
Boston University	Hampden-Sydney College	Reed College	University of N. Carolina-Chapel Hill
Brandeis University	Hampshire College	Regis University	University of N. Carolina-School of the Arts
Brenau University	Hampton University	Reinhardt College	University of New Hampshire
Brevard College	Hendrix College	Rhodes College	University of Notre Dame
Brooks Institute of Photography	High Point University	Ringling School of Art and Design	University of Oregon
Brown University	Hiram College	Roanoke College	University of Puget Sound
Bucknell University	Hofstra University	Rochester Institute of Technology	University of Redlands
Butler University	Hollins University	Rollins College	University of Rochester
Catawba College	Howard University	Rutgers, The State University	University of San Diego
Charleston Southern University	Humboldt State University	of New Jersey	University of San Francisco
Chatham College	Huntingdon College	Salem College	University of Southern California
Claremont McKenna College	Indiana University	Samford University	University of South Carolina
Clark Atlanta University	Iowa State University	San Diego State University	University of South Florida
Clark University	Jacksonville State University	San Francisco Art Institute	University of Tampa
Clayton College & State University	Jacksonville University	Santa Clara University	University of Tennessee-Chattanooga
Clemson University	Johnson & Wales University	Sarah Lawrence College	University of Tennessee-Knoxville
Coastal Carolina College	Johnson C. Smith University	Savannah College of Art and Design	University of Texas-Austin
Colby College	Juniata College	School of the Art Institute of Chicago	University of the Pacific
Colby-Sawyer College	Kansas State University	School of Visual Arts	University of the South, Sewanee
Colgate University	Keene State University	Seattle University	University of Vermont
College of the Atlantic	Kennesaw State University	Seton Hall University	University of West Georgia
College of Charleston	Kettering University	Shorter College	University of Wisconsin-Madison
College of Santa Fe	LaGrange College	Simmons College	Ursinus College
Colorado College	Landmark College	Skidmore College	Valdosta State University
Colorado State University	Lehigh University	Southern Methodist University	Vanderbilt University
Concordia College	Le Cordon Bleu College of Culinary Arts	Southern Polytechnic State University	Villanova University
Converse College	Lewis & Clark University	Southern Union State Community College	Virginia Commonwealth University
Columbia College	Limestone College	St. Andrew's Presbyterian College	Virginia Polytechnic Institute & State
Cornell University	Lindenwood University	St. John's College, MD	University
Culinary Institute of America	Louisiana State University	St. John's College, NM	Virginia Technical University
Curry College	Loyola College in Maryland	St. Louis University	Wagner College
Davidson College	Loyola University New Orleans	Stetson University	Wake Forest University
Dickinson College	Lynchburg College	Suffolk University	Warren Wilson College
Drexel University	Lyndon State College	SUNY-Buffalo	Washington and Jefferson College
Drew University	Lynn University	SUNY-Geneseo	Washington University in St. Louis
East Carolina University	Manhattanville College	Sweet Briar College	Wesleyan College
East Tennessee State University	Mary Washington College	Syracuse University	West Virginia University
Eckerd College	McDaniel College	Temple University	Western Carolina University
Elon College	Mercer University	Townson University	Western Kentucky University
Embry-Riddle Aeronautical University	Miami University	Transylvania University	Western New England College
Emerson College	Miami University, Oxford	Trent University	Western Washington University
Emory and Henry College	Middle Tennessee State University	Trident University	Wheaton College
Emory University	Mills College	Trinity College	Wheelock College
Emmanuel College	Millsaps College	Tulane University	Whittier College
Erskine College	Mississippi State University	Tuskegee University	Willamette University
Eugene Lang College	Mitchell College	United States Air Force Academy	Winthrop University
Evergreen State College	Montana State University	University of Alabama-Birmingham	Wofford College
Fairfield University	Mount Holyoke College	University of Aberdeen	Xavier University
Ferrum College	New College of Florida	University of Alabama-Tuscaloosa	Xavier University of Louisiana
Flagler College			Young Harris College

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