**Introductory Science Research**

*Course #SCI-230 1 Credit*

The Introductory Science Research course is year one of Carmel Science Research. Carmel Science Research is a three-year program that affords students the opportunity to participate in the community of scientific research as part of their high school experience. It balances instruction in the high school with a mentorship experience. By participating, a student will choose and explore a topic of interest from the physical, natural, or social sciences using professional literature, develop skills in using the internet, and learn to conduct searches of a wide range of databases. The student will study professional research publications related to their topic of interest and formally present these articles to various audiences. In addition, the student will prepare a plan of novel intended research, communicate with scientists to serve as a mentor, design and conduct a research investigation under the supervision of the science research coordinator and scientist mentor. Following completion of the authentic research, the student will write a formal research paper and present their findings at local, state, and national competitions. This program can earn students 12 college credits if they are registered at SUNY Albany after the sophomore year. College credit and weighting may be earned in Intermediate Science Research and Advanced Science Research. Honors weighting will be assigned to students completing Introductory Science Research. Can be open to freshmen, but freshmen cannot earn college credit. **Pre-requisite: Successful application process, teacher recommendation and a minimum of 85% class averages in all Regents math and science courses. *College credit is awarded only to those students who have an official mentor (expert in their field) supervising their research. Application for college credit through the University of Albany is on-line and is the responsibility of the student.* Co-Requisite: Maintain an 85% average in all Regents/Honors level Math and Science courses.**

**Intermediate Science Research**

*Course #SCI-233 1 Credit*

*SUNY Course #ACAS 109 Intermediate Science Research (2 college credits, July – August)*

*SUNY Course #ACAS 110 Intermediate Methods of Research (4 college credits, Sept – June)*

The Intermediate Science Research course is year two of Carmel Science Research. **Pre-requisite: Introductory Science Research. Co-Requisite: Maintain an 85% average in all Regents/Honors level Math and Science courses. *College credit is awarded only to those students who have an official mentor (expert in their field) supervising their research. Application for college credit through the University of Albany is on-line and is the responsibility of the student.***

**Advanced Science Research**

*Course #SCI-235 1 Credit*

*SUNY Course #ACAS 209 Advanced Science Research (2 college credits, July – August)*

*SUNY Course #ACAS 210 Advanced Methods of Research (4 college credits, Sept – June)*

The Advanced Science Research course is year three of Carmel Science Research. **Pre-requisite: Intermediate Science Research. Co-Requisite: Maintain an 85% average in all Regents/Honors level Math and Science courses. *College credit is awarded only to those students who have an official mentor (expert in their field) supervising their research. Application for college credit through the University of Albany is on-line and is the responsibility of the student.***