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| **Health Science Education courses are offered only at Boca Ciega High and Palm Harbor University High.** |
| **SPECIAL COURSES OFFERED ONLY BY THE**  **MEDICAL MAGNETS** |

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| **\* Health Science 1** | |
| **Course #** | 8417100 1,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | None |
| **Credit** | 1 |
| In addition to the opportunity to investigate specific health career data, students learn how the human body functions. Each body system is studied to learn how it functions, and the effects of more common diseases. These concepts are related to the provision of health care by the various health careers workers. | |

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| **\* Health Science 2** | |
| **Course #** | 8417110 1,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science-May have concurrent enrollment in any Health Science Education level 3 class. |
| **Credit** | 1 |
| This course provides all potential health career students with an opportunity to explore concepts basic to the broad field of health care. Subjects covered include roles and interactions of various workers, medical communication skills, legal and ethical responsibilities, the effects of illness on a patient and his family, safety and infection control, and the use of computers in health care. Hands on skills, generic to all health fields, are learned. Instruction includes both theory and practice. | |

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| **Explanation of Symbols** | |
| **Symbol** | **Explanation** |
| **\*** | When Health Science 1 and 2 are completed they may be substituted for one credit in Anatomy and Physiology. |

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| **Allied Health Assisting 3** | |
| **Course #** | 8417131 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science 1 and 2 |
| **Credit** | 1 |
| The course is designed to prepare students for employment as an allied health aide, medical assistant, physician aide, medical laboratory assistant, occupational therapy aide, physical therapy aide, respiratory therapy aide or radiologic aide. Major areas of allied health are defined as physical therapy, emergency, radiation, laboratory and respiratory medicine, and occupational therapy. Upon successful completion of this program, students are eligible for articulations with selected post-secondary institutions. | |

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| **Dental Aide 3** | |
| **Course #** | 8417141 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science 1 and 2.  Health Science 2 may be concurrent. |
| **Credit** | 1 |
| This program is designed to provide classroom theory and practical application in assisting dentists with actual dental procedures in the care of a patient. It is designed to prepare students for entering or pursuing further education in the dental field. Classroom, laboratory, and clinical activities are provided to enhance application of practical skills. | |

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| **Electrocardiograph Aide 3** | |
| **Course #** | 84171610 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | Health Science 1 and 2.  Health Science 2 may be concurrent. |
| **Credit** | 1/2 |
| The purpose of this course is to prepare students for employment or advanced training as an Electrocardiograph Aide 3. Health Science 1 and 2 is a prerequisite for this course. High school students completing Health Science 1 and 2 will not have to repeat the “core” in post-secondary programs. A student who successfully completes this course may either continue with a postsecondary training program or exit as a program completer. Specific course information regarding licensure and certification guidelines is included with the skill standards portion of the framework. | |

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| **Emergency Medical Responder** | |
| **Course #** | 8417171 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science 1 and 2. Health Science 2 may be concurrent. |
| **Credit** | 1 |
| This is an instructional program that prepares any individual to provide initial care to sick or injured persons or as ambulance drivers and attendants. The content includes vital signs, airway management, primary and secondary assessment, medical legal aspects, BLS/CPR, bleeding and shock control, dressing and bandaging, musculoskeletal injuries, spine injuries, emergency documentation, patient transfer, medical and traumatic emergencies, respiratory distress, poisoning, burns, entrapment, childbirth and infection control. | |

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| **Health and Wellness** | |
| **Course #** | 8417120 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science 1 and 2 |
| **Credit** | 1 |
| The purpose of this course to prepare students for the wellness and fitness marketplace and its various components such as instructor coach groups or individuals in exercise activities and the fundamentals of an individual’s health and wellness. Personal trainers demonstrate techniques and methods of participation and observe participants and inform them of corrective measures necessary to improve their skills and personal health. The content includes but is not limited to planning, management, finance, technical and production skills, applied aspect of leadership, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues. Work based learning experiences are an integral part of this program. | |
| **Health Science Education Directed Study** | |
| **Course #** | 8400100 0 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | Health Science 1 and 2 and completed a HSE program |
| **Credit** | Multiple Credits |
| The purpose of this program is to provide students with additional competencies or more extensive occupational experiences related to competencies in a health science career. The content is prescribed by the instructor based upon the individual student’s need for directed study. Research, portfolio development, and field experience are utilized. | |

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| **Health Science Education Cooperative Education OJT** | |
| **Course #** | 8400410, 0 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | Concurrent enrollment in a Health Science Education program, instructor's approval, and 2.0 cumulative GPA. |
| **Credit** | Multiple Credits |
| This course is available to students who have completed Health Sciences 1 and 2 and are currently enrolled in a level 3 class. The student must be employed in an approved Health Science Education position and receive compensation for work performed. | |

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| **Health Unit Coordinator 1 and 2** | |
| **Course #** | 8417281 1,2 **Health Unit Coordinator 1** |
|  | 8417282 1,2 **Health Unit Coordinator 2** |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science 1 and 2.  Health Science 2 may be concurrent. |
| **Credit** | 1 |
| This program is designed to prepare students for employment as ward clerks, or health unit coordinators. Curriculum in this course includes medical terminology, legal and ethical issues, as well as transcription of physicians’ orders. Classroom, laboratory, and clinical experiences are used to enhance practical skills. | |

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| **Home Health Aide 3** | |
| **Course #** | 8417191 0 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | Health Science 1 and 2.  Health Science 2 may be concurrent. |
| **Credit** | 1/2 |
| This course is designed to prepare students for employment as a home attendant, or home health aide, nursing aides and orderlies. The content includes instruction in those supportive services that are required to provide and maintain bodily and emotional comfort and to assist the patient toward independent living in a safe environment. | |

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| **Q Medical Lab Assist 3 & 4** | |
| **Course #** | 8417201 1,2 & 8417202 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1-2 years |
| **Prerequisite** | Health Science 1 and 2.  Health Science 2 may be concurrent. |
| **Credit** | 1 credit per level |
| The purpose of the above courses is to prepare students for employment or advanced training as a Medical Laboratory Assistant. Health Science 1 and 2 will not have to repeat the “core” in post-secondary programs. A student who successfully completes Medical Laboratory Assisting 3 and 4 may either continue with a postsecondary training program or exit as a program completer. | |

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| **Q Nursing Assistant 3** | |
| **Course #** | 8417211 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | Health Science 1 and 2.  Health Science 2 may be concurrent. |
| **Credit** | 1 |
| The program is designed to prepare students for employment as nursing assistants, nursing aides and orderlies. The content includes interpersonal skills, medical terminology, legal and ethical responsibilities; safe and efficient work, gerontology, nutrition, pet-facilitated therapy, health and safety including Cardiopulmonary Resuscitation (CPR) heart saver level and employability skills. For nursing assistant certification a minimum of 40 hours clinical and/or cooperative education learning experiences must be obtained. Upon successful completion of this program, students are eligible for state certification and articulations with selected post-secondary institutions. | |

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| **Q Practical Nursing** | |
| **Course #** | 8418310 1,2 - 8418390 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1-2 years |
| **Prerequisite** | Health Science 1 and 2 and Certified Nursing Assistant |
| **Credit** | 1 credit per level |
| The above courses are designed to prepare students for employment as a licensed practical nurse. This program is only offered to high school students in a medical magnet program. This course may only be taught at Pinellas Technical Education Center (PTEC). The student must have prior approval from the nursing department chair and/or administrator at PTEC and the medical magnet program coordinator. | |

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| **Q Vision Care Assisting 3 & 4** | |
| **Course #** | 8417231 1,2 & 8417232 1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1-2 years |
| **Prerequisite** | Health Science 1 and 2 |
| **Credit** | 1 credit per level |
| The purpose of the above courses is to prepare students for employment or advanced training as a Vision Care Assistant. Health Science 1 and 2 is a prerequisite for this course. High school students completing Health Science 1 and 2 will not have to repeat the “core” in post-secondary programs. A student who successfully completes Vision Care Assisting 3 and 4 may either continue with a postsecondary training program or exit as a program completer. | |

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| **Pharmacy Technician Program** | |
| **Course #** | 8418210 |
|  | 8418220 |
|  | 8418230 |
|  | 8418240 |
|  | 8418250 |
|  | 8418260 |
|  | 8418270 |
| **Grade Level** | 9-12 |
| **Length** | 7 credits |
| **Prerequisite** | Health Science 1 and 2 |
| **Credit** | 1 credit per level |
| The program is designed to prepare students for employment as pharmacy technicians. This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the health care industry; planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.  The content includes but is not limited to metric system, medical terminology, medicinal drugs, pharmaceutical compounding, USP 795 standards, sterile techniques, USP 797 standards, maintenance of inventory, IV preparation, receiving and handling of hazardous materials, preparing purchase orders, receiving and checking supplies purchased, printing labels, typing prescription labels, delivering medications, pricing prescription drug orders and supplies, prepackaging unit dose packages, patient record systems, control records, and data processing automation in pharmacy. | |

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| **Medical Skills and Services** | |
| **Course #** | 8400320 1,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | None |
| **Credit** | 1 |
| The purpose of this program is to provide students with an introduction to the health care field. Topics covered include current trends in health care delivery, exploration of the expanding career opportunities and the required education, medical terminology, and beginning health care skills basic to all health careers. | |