
Educational Program Specifications - Overview

Overview of Program Format

The educational programming section for the Wheeler Middle & High School study is organized into five sections. Each section identifies program and support spaces that are programmatically related. All spaces within the facility are identified in one of the following sections:

1. Academic Classroom & Support Spaces
2. Technology Education, Performing & Visual Arts
3. Assembly and Community Use
4. Administration and Student Services
5. Facilities Management and Support

A space utilization program is provided in the beginning of each section indicating the name of each space, the number of the spaces required and the size of the space. Following the space program are diagrams that show the relationship and adjacencies of the proposed program spaces. Informational data sheets are provided for each space. The information on these pages is provided as a starting point for the architectural design team. Further review with the school for final room layout, furnishings and fixtures will be required prior to the development of the final design.

1. **ACADEMIC**
 - English / Language Arts
 - Social Studies
 - Science
 - Mathematics
 - World Language
 - Business
2. **TECHNOLOGY EDUCATION, PERFORMING & VISUAL ARTS**
 - Music
 - Art
 - Technology Education
 - Computers/Prototypical Resource Lab
3. **ASSEMBLY & COMMUNITY USE**
 - Media Center
 - Cafeteria and Kitchen
 - Assembly / Gymnasium & Auditorium Combination
 - Physical Education and Health
4. **ADMINISTRATION & STUDENT SERVICES**
 - Administrative Offices
 - Student Support Services
 - Health/Nurse
 - Guidance
5. **FACILITY MANAGEMENT & SUPPORT**
 - Boiler Plant / Mechanical / Electrical Infrastructure
 - Facilities Offices & Building Storage

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Educational Program Specifications – English/Language Arts

Program Objectives

Each student takes two years of Language Arts at Wheeler Middle School.

Each student who graduates from Wheeler High School needs to successfully earn 4.0 credits in English.

Language Arts standards mandate that students, by the end of 12th grade, should have developed proficiency, confidence, and fluency in reading, writing, listening, speaking, and viewing to meet the literacy demands of the 21st century. Although we understand that the development of language is a life-long process, the extent to which students become proficient in these skills while at Wheeler is vitally related to their future abilities to function independently and productively in life. Specifically, students should be able to read and respond in personal, literal, critical, and evaluative ways to literary, informational, and persuasive texts. They should also produce written, oral, and visual texts to express, develop, and substantiate ideas and experiences. Students will use the language arts to explore and respond to classic and contemporary texts from many cultural and historical periods. They also will recognize their own strengths and weaknesses in Language Arts. Since language itself is an important means of giving shape to experience and knowledge of expressing human hopes and feelings, students shall be instructed in the ways in which language functions and in ways of controlling and using language. The English/Language Arts Department at Wheeler is tasked with managing the Senior Project graduation requirement.

Program Goals

Instruction in Language Arts involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the English/Language Arts program include the following:

- A. Development of skills which are basic to most other subjects studied and useful, if not vital, to success in our highly verbal culture;
- B. Development of an understanding about literacy tradition which comprises the subject matter unique to English, the broad cultural heritage of the English-speaking people – religious, technological, political, sociological and artistic;
- C. Development of the powers of comprehension and coherence and fluency in expression;
- D. Presentation of literary works that promote humanistic attitudes, aesthetic appreciation, critical evaluation, and civic pursuits;
- E. Development of critical judgment techniques through practice and awareness of the way language shapes our world.

Program Courses

- A. Grade 7 Language Arts (at least one co-taught class)
- B. Grade 8 Language Arts (at least one co-taught class)
- C. Grade 9 English (Honors, Academic & General)
- D. Grade 10 English (Honors, Academic & General)
- E. Grade 11 English (Academic & General)
- F. Grade 11 Advanced Placement/ECE
- G. Grade 12 English (Academic & General)
- H. Grade 12 Advanced Placement/ECE

Program Activities to be Accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space

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must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The English/Language Arts classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The English/Language Arts Department classrooms include the students and English/Language Arts Department teachers. Depending on the course, a special education teacher, paraprofessional, or a reading/writing resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for multiple computers and/or laptops.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Current Space Limitations:

Lack of storage space (primarily in the Middle School Classrooms) and appropriate school-wide workroom.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses.

Design Concept:

Program Requirements

The English/Language Arts Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for "renovate as new" will be replaced. The following pages identify specific requirements for each space.

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English/Language Arts Classrooms

Quantity: 5 (2 Middle School – 3 High School)

Proposed SF: 1 spaces of 500 SF for 12 to 15 Students in New addition.
1 spaces of 625 SF for 12 to 15 Students in New addition.
2 spaces of 675 SF for 15 to 18 Students in New addition.
2 spaces of 700 SF for 18 to 20 Students in New addition (Middle School)

Space Design Concept

The classroom should be designed for an integrated approach to technology accommodating multiple furniture arrangements and classroom configurations. A folding partition would be installed between the 500SF and 625SF rooms. The space should function as an office for the teacher and study hall for students.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 15 to 20 in each space depending on the size the space.
Circular tables for small groups with chairs – Optional arrangement
Mobile computer stations no – wireless computers throughout building
Teacher Desk and Chair yes – 1 of each required
Lateral/vertical file cabinet yes – 1 four drawer required in each classroom

Fixed Equipment

Acoustical treatment yes – Meet State acoustical requirements
Marker/white board yes – 1 at 12 linear feet
Tack board & display boards yes – 2 at 4 linear feet
Projection screen/surfaces yes – white board will be utilized
Flag Bracket & Flag yes – one in each room
Display and book shelves yes – along one wall / 15 linear feet of shelf space
Tall wardrobe and storage cabinet yes – along one wall 3 linear feet total
Fixed cabinets and accessible work surfaces yes – along one wall 9 linear feet of upper and lower cabinets total

Finishes

Floor material: VCT
Base material: Rubber / Vinyl
Wall material: Block / Sheetrock finish: Paint
Ceiling material: Acoustical Tile height: 8'-0" minimum
Hardware: ADA compliant
Lighting: Multi-level energy efficient LED direct/indirect
Windows: Operable with blinds/shades - Maximize natural light
Fire extinguisher & suppression per code

Special Requirements

Specialty lighting No
HVAC systems including Air Conditioning Yes
Natural and indirect/direct Lighting Yes Provide daylighting options in each space

Technology

Power outlet - floor and walls yes – as appropriate
Media projection system yes – Utilize existing systems
Interactive White Board Utilize existing systems
Voice, video and data ports yes – phone / intercom and data
Security yes
Portable sound system yes
Technology equipment yes – per the district's technology plan
Wireless & Hard wired Network yes – per the district's technology plan
Integrated public address & clock system yes

Educational Program Specifications – Social Studies

Program Objectives

Each student takes two years of Social Studies at Wheeler Middle School.

Each student who graduates from Wheeler High School needs to successfully earn 3.0 credits in Social Studies.

The *National Council for Social Studies* has defined a vital social studies curriculum which promotes civic competence, enabling young people to develop the ability to make informed and reasoned decisions as part of a culturally diverse and democratic society. Through an integrated study of the social sciences and humanities, students will achieve an understanding of the history of the Western world and the United States and the effects on their lives; understanding of the history and culture of other portions of the world; understanding of the operations of our representative government and their roles in it; and the ability to effectively communicate their ideas orally and in writing. The Wheeler social studies curriculum focuses on learning opportunities that enable students to think critically, integrate significant facts, concepts, and generalizations from history and social science into their own experiences and research skills.

Program Goals

Instruction in social studies involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the social studies program include the following:

- A. Development and understanding of socialization which is aimed at helping a student to become an effective member of social groups and society in general;
- B. Development of decision-making skills aimed at helping the student to make effective use of intellectual skills in reaching decisions about their social concerns and appropriate responses to those discoveries;
- C. Development of a clear sense of citizenship aimed at helping students understand their role and processes of a representative-democratic government;
- D. Development of knowledge acquisition skills aimed at helping students acquire and utilize information and intellectual skills provided through social science curriculum.

Program Courses

- A. Grade 7: World Cultures
- B. Grade 8: United States History
- C. United States History (General, Academic & Honors)
- D. World History I: Foundations of the Modern World (General, Academic & Honors)
- E. World History II: Twentieth Century World History (General, Academic & Honors)
- F. Civics
- G. “The Social Being” – Social Psychology
- H. Advanced Placement Government and Politics
- I. Advanced Placement United States History
- J. History Through Film
- K. Contemporary Social Issues in America

Program Activities to be Accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization

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of material available in the classroom as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The social studies classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The Social Studies Department classrooms include the students and Social Studies Department teachers. Depending on the course, a special education teacher, paraprofessional, or a reading/writing resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Side-lites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Current Space Limitations:

Lack of storage space (primarily in the Middle School Classrooms) and appropriate school-wide workroom. The lay-out of the current space, forces one department to “split” within the high school. All three high school classrooms should be near each other which will foster collaboration.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses.

Design Concept:

Program Requirements

The Social Studies Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for “renovate as new” will be replaced. The following pages identify specific requirements for each space.

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Educational Program Specifications - Science

Program Objectives

Each student takes two years of Science at Wheeler Middle School.

Each student who graduates from Wheeler High School needs to successfully earn 3.0 credits in Science.

The United States has set a national goal for the achievement of scientific literacy by all students. Scientific Literacy allows students to participate effectively in the discussion of scientific issues that affect society and to strengthen skills that are important in everyday life (e.g. thinking critically, solving problems). The *National Science Education Standards* outline the expectations of a science curriculum. Students must know and apply basic scientific knowledge in life, physical, earth, and space sciences. Throughout this diversity of subject matter, there are common themes of energy, matter, systems, change and continuity, process, and society. Students should have many opportunities for inquiry and investigation: making observations, posing questions, using research, analyzing data, and proposing explanations. A critical combination of content and process is necessary to achieve these goals, which can be accomplished by maximizing laboratory use and providing a laboratory-centered science experience. Under the newly drafted National Science Curriculum, the science program shall incorporate the greenhouse and technology to expand and enrich student learning opportunities. All Grades 6 thru 12 will need the full "traditional" lab environment with the support facilities, including storage and preparatory rooms.

Program Goals

Instruction in Science involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Science program include the following:

- A. Development of laboratory use and a laboratory-centered science experience for all students;
- B. Development of critical judgment techniques through practice and awareness of the sciences;
- C. Development of problem-solving skills aimed at helping students to make effective use of intellectual abilities in reaching decisions about their social concerns and appropriate responses to those discoveries.

Program Courses

- A. Grade 7 Science
- B. Grade 8 Science
- C. Integrated Science (General, Academic & Honors)
- D. Biology (General, Academic & Honors)
- E. Chemistry (General, Academic & Honors)
- F. Advanced Placement Biology
- G. Advanced Placement Chemistry
- H. Academic Physics
- I. Astronomy
- J. Forensics
- K. Current Issues in Science
- L. Oceanography
- M. Environmental Issues

Program Activities to be Accommodated

Activities to be housed include large and small group instruction along with the ability to apply and experience the scientific theory through experiments in a laboratory environment. Students will read, discuss, write, and conduct research, through the utilization of materials available in the Lab-Classroom (clabs) as well as the technological resources of voice, video, and print media. The facilities must be designed to be adaptable to all the curricula. All science courses will be taught with an emphasis on investigation.

Space Occupancy and Design Criteria

The Science Department classrooms include the students and Science Department teachers. Depending on the course, a special education teacher, paraprofessional, or a resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Special Space Occupancy and Design Criteria

As science rooms will be designed or renovated to meet the needs of the different science disciplines, each room should be designed for flexibility for changing programs and course demand. Where possible, labs should be multifunctional and able to accommodate Biology, Chemistry, Physics, or the Integrated Science programs. All of these science rooms should meet current OSHA regulations.

- Chemistry rooms need ample storage for student balances, the wide range of equipment and supplies, models and goggles.
- Biology and Chemistry rooms need ample storage for microscopes, the variety of teaching supplies and chemicals, models, goggles, and other collections.
- Integrated science rooms need variable size storage cabinets with adjustable shelving to house the wide range of equipment.
- Physics rooms need storage for the wide range of equipment and supplies.
- Science classes periodically need access to computer stations, where students can individually use instructional software. Science classes may need to go to the library to use resources there.
- All spaces need quiet ventilation appropriate for science rooms. Immediate fume removal should be available overhead in the lab areas. Some windows should open to the outside and be screened. Each room or group of rooms requires separate prep and storage areas that support the science being taught in the adjacent lab. Each prep room has a combination of shelf, cabinet, and drawer storage. Each has at least one sink with access to gas, water, and electricity. Counter space must be adequate.
- These prep rooms should be designed to also function as offices for the teachers.
- The biology prep area needs space and lighting for plant growth and electrical outlets to run an aquarium. Adequate storage of preserved materials and commonly used biological supplies will be close by. This prep area should be close to and on the same floor as the biology labs.
- The chemistry prep area needs adequate storage for commonly used supplies as well as ready access to storage facilities designed for acids, bases, and other chemicals used. This chemical storage area needs appropriate ventilation so that acid storage cabinets do not corrode. This prep area should be close to the chemistry classrooms/lab and should be on the same floor.
- All science classroom/labs should have non-slip vinyl tiles or a similar non-slip finish.

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- Drains shall be provided at all labs where eye wash and body Showers are installed.

Special Furniture and Equipment

- Student lab work will be performed on impermeable, chemical-resistant surfaces.
- A portable handicapped lab station that is fully operational needs a designated spot in all classrooms.
- The student lab stations should include gas jets, deep sinks, hot and cold water faucets, and electrical outlets.
- The sinks should have screened drains and a water trap that is chemically resistant and easily cleaned.
- Master gas and electrical shutoff should be provided in each room.
- Electrical outlets should have ground fault protection.
- Each room shall have a space for spill control materials and a chemical power and eyewash that drains to an outlet.
- Each room should have the required safety equipment (eye goggle sanitizing cabinet, fire extinguisher, fire blanket, and first aid kit).
- All storage and closets will be lockable.
- Each room will have bulletin boards, wall space for charts, and a teacher demonstration area.
- There should be room for a standard two-student table beside each demonstration table.
- Each room needs space for networked computers and printers with nearby terminal and electrical outlets.
- Each room needs two wall mounted video monitors to allow all students to see at least one monitor clearly from his or her seat.
- Each science room needs white boards or marker boards, a chemical fume hood, a full-sized acid/chemical storage cabinet, and a regular refrigerator or one located under the counter.
- Rooms where advanced biology and chemistry classes are held require an explosion proof refrigerator and multiple fume hoods.

Current Space Limitations

The Current, the science laboratory casework layout and class/lecture area configuration at Wheeler Middle and High School do not meet the standards established by National Science Teachers Association and the National Science Supervisors Association. The book "Pathways to the Science Standards – High School Edition" is a guide to the implementation of National Science Standards. The standards focus on establishing a Laboratory and Classroom environment that addresses both safety and educational standards in the design of a Science Classroom. ADA, NFPA, OSHA and other code requirements must also be addressed in each space. A 21st. Century typical classroom will include casework/cabinets as well as technology to allow students access to the latest research in the specific subject area. The existing space and condition for the science program are severely lacking in all regards. The sizes and layout of the existing laboratory facilities are inadequate and accessibility is limited. Appropriate space, equipment and an updated mechanical system design is needed for the classrooms, preparatory and chemical storage rooms

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The two Middle School classrooms should be designed with flexibility to meet the various requirements of the science program; they are outlined below. The High School classrooms should be designed with specific disciplines in mind, but also have the flexibility so that electives can be taught in the space depending upon enrollment and requirements.

Design Concept Program Requirements

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The Science Department space requirements will include 3 clabrooms at the high school, 2 Integrated Science Rooms in the Middle School, chemical and general storage rooms, and prep rooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All

furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for “renovate as new” will be replaced. The following pages identify specific requirements for each space.

Biology Science Clabroom /Classrooms and Lab

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Quantity: 1 (High School)
Proposed SF: 1,200 to 1,250 SF Each New Space

Space Design Concept

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Air, Gas, Water, and Power) will serve each lab station and data access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provide access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be provided in and adjacent to each clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

Program Activities

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 20 seats
Mobile computer stations no – wireless computing throughout building
Teacher Desk and Chair
Lateral file cabinet
Lab Chairs

Fixed Equipment

Acoustical treatment yes
Marker/white board (Multiple) yes
Tack board & display boards yes
Projection screen/surfaces yes
Display and book shelves yes
Tall wardrobe and storage cabinet yes
Fixed cabinets and accessible work surfaces yes
Gas yes at each lab station
Sink yes at each lab station
Power yes at each lab station
Air yes at each lab station
Eyewash & Body Shower yes with floor drain
Fume Hood and/or Laminar Flow yes
Specific Equipment for program yes – see equipment requirements

Finishes

Floor material: Polished Concrete
Base material: Rubber / Vinyl
Wall material: Block / Sheetrock finish: Paint
Ceiling material: Acoustical Tile height: 8'-0" minimum
Hardware: ADA compliant
Lighting: Multi level direct/indirect
Windows: Operable with blinds/Room darkening Shades - Maximize natural light
Fire extinguisher & suppression per code

Special Requirements

HVAC systems including Air Conditioning and direct exhaust
Operable windows

Technology

Power outlet – floor, Casework and walls yes – as appropriate
Media projection system yes
Smart boards yes
Voice, video and data ports yes – phone / intercom/PA system and data
Security yes
Portable sound system yes
Technology equipment yes – per the district's technology plan
Wired & Wireless network yes – per the district's technology plan

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Chemistry Science Clabroom / Classrooms and Lab

Quantity: 1 (High School)
Proposed SF: 1,200 to 1,250 SF Each New Space

Space Design Concept

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Air, Gas, Water, and Power) will serve each lab station and data access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provided access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be provided in and adjacent to each clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

Program Activities

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 20 seats	
Mobile computer stations	no – wireless computing throughout building
Teacher Desk and Chair	
Lateral file cabinet	
Lab Chairs	

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes
Tack board & display boards	yes
Projection screen/surfaces	yes
Display and book shelves	yes
Tall wardrobe and storage cabinet	yes
Fixed cabinets and accessible work surfaces	yes
Gas	yes at each lab station
Sink	yes at each lab station
Power	yes at each lab station
Air	yes at each lab station
Eyewash & Body Shower	yes with floor drain
Fume Hood	yes
Specific Equipment for program	yes – see equipment requirements

Finishes

Floor material:	Polished Concrete		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds/Room darkening Shades - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning and direct exhaust
Operable windows

Technology

Power outlet – floor, Casework and walls	yes – as appropriate
Media projection system	yes
Smart boards	yes
Voice, video and data ports	yes – phone / intercom/PA system and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wired & Wireless network	yes – per the district's technology plan

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Physics/Integrated Science Clabroom /Classrooms and Lab

Quantity: 1 (High School)
Proposed SF: 1,200 to 1,250 SF New Space

Space Design Concept

The clabroom should be designed with technology integrated into each instructional workstation including the lab stations. All utilities (Air, Gas, Water, and Power) will serve each lab station and date access will be designed to accommodate a variety of technologies. An Interactive Whiteboard will be located to provided access and use at the lecture and lab zones of the clabrooms. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep rooms, storage room for equipment and chemicals and project storage will be provided in and adjacent to each clab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

Program Activities

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 20 seats
Mobile computer stations no – wireless computing throughout building
Teacher Desk and Chair
Lateral file cabinet
Lab Chairs

Fixed Equipment

Acoustical treatment yes
Marker/white board (Multiple) yes
Tack board & display boards yes
Projection screen/surfaces yes
Display and book shelves yes
Tall wardrobe and storage cabinet yes
Fixed cabinets and accessible work surfaces yes
Gas yes at each lab station
Sink yes at each lab station
Power yes at each lab station
Air yes at each lab station
Eyewash & Body Shower yes with floor drain
Fume Hood and/or Laminar Flow no
Specific Equipment for program yes – see equipment requirements

Finishes

Floor material: Polished Concrete
Base material: Rubber / Vinyl
Wall material: Block / Sheetrock finish: Paint
Ceiling material: Acoustical Tile height: 8'-0" minimum
Hardware: ADA compliant
Lighting Multi level direct/indirect
Windows Operable with blinds/Room darkening Shades - Maximize natural light
Fire extinguisher & suppression per code

Special Requirements

HVAC systems including Air Conditioning and direct exhaust
Suspended Girder below ceiling

Technology

Power outlet – floor, Casework and walls yes – as appropriate
Media projection system yes
Smart boards yes
Voice, video and data ports yes – phone / intercom/PA system and data
Security yes
Portable sound system yes
Technology equipment yes – per the district's technology plan
Wired & Wireless network yes – per the district's technology plan

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Integrated Science Classrooms

Quantity: 2 (Middle School)
Proposed SF: 800 to 1,000 SF Each

Space Design Concept

The labroom should be designed with technology integrated into each instructional workstation. All utilities (Air, Gas, Water, and Power) will serve the instructional space and date access will be designed to accommodate a variety of technologies. Interactive Whiteboards will be located to provided access and use at the lecture area. All casework will meet the National Science Education Standards and provide opportunity for multiple furniture arrangements and lecture configurations. The prep room, storage room for equipment and chemicals and project storage will be provided in and adjacent to each lab. Safety and environmental comfort will be a priority in all laboratory and support spaces.

Program Activities

Support a number of teaching styles, including lectures, lab work, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 20 each	
Mobile computer stations	no – wireless computing throughout building
Teacher Desk and Chair	
Lateral file cabinet	
Lab Chairs	

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes
Tack board & display boards	yes
Projection screen/surfaces	yes
Display and book shelves	yes
Tall wardrobe and storage cabinet	yes
Fixed cabinets and accessible work surfaces	yes
Gas	yes - at designated areas
Sink	yes - at designated areas
Power	yes - at designated areas
Air	yes - at designated areas
Eyewash & Body Shower	yes with floor drain
Fume Hood and/or Laminar Flow	No
Specific Equipment for program	yes – see equipment requirements

Finishes

Floor material:	Polished Concrete		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds/Room darkening Shades - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning and direct exhaust
Operable windows

Technology

Power outlet – floor, Casework and walls	yes – as appropriate
Media projection system	yes
Smart boards	yes
Voice, video and data ports	yes – phone / intercom/PA system and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wired & Wireless network	yes – per the district's technology plan

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Science Department Storage

Quantity: 3 (High School – 2 & Middle School -1)
Proposed SF: 150 to 200 SF Each

Space Design Concept

The storage should be designed to accommodate books, media storage, vented chemical storage cabinets and Science department specific equipment. Access to instructional space and the corridor is recommended.

Program Activities

Storage of educational materials.

Loose Furnishings

Carts with spill prevention lips
Lateral file cabinet

Fixed Equipment

Shelves	yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet	yes
Chemical Storage Cabinets	yes - vented

Finishes

Floor material:	VCT
Base material:	Rubber
Wall material:	Block / Sheetrock
Wall Finish:	Paint
Ceiling material:	Acoustical Tile
Ceiling height:	8'-0" minimum
Hardware:	ADA compliant - Lockable
Lighting	Standard
Fire extinguisher & suppression	Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls	yes
Security	yes – per the districts security plan
Communications	yes – phone / intercom/PA system

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Science Department Prep Rooms

Quantity: 4 (High School connected to each Clab total 3 – One at the Middle School shared by the 2 science Clabs)
Proposed SF: 200 to 250 SF Each – High School
Proposed SF: 200 to 250 SF Each – Middle School

Space Design Concept

The prep room should be designed to accommodate all necessary casework for the preparation of science lab coursework related to the lecture and hands-on / experiment components of the curriculum. The prep rooms will be designed as a lab station to accommodate a fume hood and other equipment necessary for the preparation of the coursework. The work station will also be equipped with a computer, printer and other appropriate equipment. Storage cabinets and shelves will also be provided.

Program Activities

Science Lab preparatory area and office space.

Loose Furnishings

Carts with spill prevention lips
Desk and Chair
Lateral file cabinet

Fixed Equipment

Shelves	yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet	yes
Chemical Storage Cabinets	yes - vented
Lab casework with resin tops.	
Secure cabinets	
Fume hood	
Equipment specific to the science discipline.	

Finishes

Floor material:	Polished Concrete
Base material:	Rubber
Wall material:	Block / Sheetrock
Wall Finish:	Paint
Ceiling material:	Acoustical Tile
Ceiling height:	8'-0" minimum
Hardware:	ADA compliant - Lockable
Lighting	Standard
Fire extinguisher & suppression	Per code

Special Requirements

HVAC systems and exhaust
Sink
All utilities (Air, Gas, Water, and Power)

Technology

Power outlet - walls	yes
Security	yes – per the districts security plan
Voice, video and data ports	yes – phone / intercom/PA system and data
Computer, Printer, Monitor Etc.	yes – per the districts technology plan

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Educational Program Specifications – Mathematics

Program Objectives

Each student takes two years of Mathematics at Wheeler Middle School.

Each student who graduates from Wheeler High School needs to successfully earn 4.0 credits in Mathematics.

The 7-12 Math curriculum focuses on learning opportunities which enable students to think critically and problem-solve by analyzing data and applying math concepts to real-world situations. Students should become mathematical problem solvers, learn to communicate and reason mathematically, learn to value mathematics, and develop confidence in their ability to do mathematics. The high school mathematics program includes a range of offerings, including Algebra, Geometry, Algebra II, Statistics, Pre-Calculus, Discrete Math, and Calculus (both regular and Advanced Placement). Though there is a specific focus for each mathematics course, problems and explorations are introduced which cause students to revisit other strands of the mathematics curriculum, thereby highlighting the connections among different math topics and courses. Technology should be used extensively throughout the curriculum, enabling teachers to provide visual and physical components to illustrate abstract mathematical concepts, giving students opportunities to learn quickly and in depth. Under the new Common Core Curriculum, all courses should be application-driven, meaning that mathematical skills and concepts are taught as much as possible in the context of real-world situations. The language of mathematics provides a medium to translate the physical world into a system to facilitate recording, manipulation, and generalization.

Program Goals

Instruction in Mathematics involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the mathematics program include the following:

- A. Developing the skill of perseverance in problem solving;
- B. Developing the skill to reason abstractly and quantitatively;
- C. Developing the skill to construct viable arguments and critique the reasoning of others;
- D. Developing the skill to model with mathematics;
- E. Developing the skill to use appropriate tools strategically;
- F. Developing the skill to attend to precision;
- G. Developing the skill to look for and make use of structure;
- H. Developing the skill to look for and express regularity in repeated reasoning.

Program Courses

- A. Grade 7 Math (at least one section of Pre-algebra)
- B. Grade 8 Math (at least one section of Algebra)
- C. Algebra I (General & Academic)
- D. Geometry (General, Academic & Honors)
- E. Algebra II (General, Academic & Honors)
- F. Pre-calculus (Honors & Academic)
- G. Statistics
- H. Discrete Math (ECE)
- I. Academic Calculus
- J. Advanced Placement/ECE Calculus

Program Activities to be Accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All

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students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The Mathematics classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The Mathematics Department classrooms include the students and Mathematic Department teachers. Depending on the course, a special education teacher, paraprofessional, or a reading/writing resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Current Space Limitations:

Lack of storage space in all mathematics classrooms and appropriate school-wide workroom.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses.

Design Concept:

Program Requirements

The Mathematics Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for "renovate as new" will be replaced. The following pages identify specific requirements for each space.

Mathematics Classrooms

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Quantity: 5 (2 Middle School – 3 High School)

Proposed SF: 1 spaces of 500 SF for 12 to 15 Students in New addition.
1 spaces of 625 SF for 12 to 15 Students in New addition.
2 spaces of 675 SF for 15 to 18 Students in New addition.
2 spaces of 700 SF for 18 to 20 Students in New addition (Middle School)

Space Design Concept

The classroom should be designed for an integrated approach to technology accommodating multiple furniture arrangements and classroom configurations. A folding partition would be installed between the 500SF and 625SF rooms. The space should function as an office for the teacher and study hall for students.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 15 to 20 in each space depending on the size the space.
Circular tables for small groups with chairs – Optional arrangement
Mobile computer stations no – wireless computers throughout building
Teacher Desk and Chair yes – 1 of each required
Lateral/vertical file cabinet yes – 1 four drawer required in each classroom

Fixed Equipment

Acoustical treatment yes – Meet State acoustical requirements
Marker/white board yes – 1 at 12 linear feet
Tack board & display boards yes – 2 at 4 linear feet
Projection screen/surfaces yes – white board will be utilized
Flag Bracket & Flag yes – one in each room
Display and book shelves yes – along one wall / 15 linear feet of shelf space
Tall wardrobe and storage cabinet yes – along one wall 3 linear feet total
Fixed cabinets and accessible work surfaces yes – along one wall 9 linear feet of upper and lower cabinets total

Finishes

Floor material: VCI
Base material: Rubber / Vinyl
Wall material: Block / Sheetrock finish: Paint
Ceiling material: Acoustical Tile height: 8'-0" minimum
Hardware: ADA compliant
Lighting Multi-level energy efficient LED direct/indirect
Windows Operable with blinds/shades - Maximize natural light
Fire extinguisher & suppression per code

Special Requirements

Specialty lighting No
HVAC systems including Air Conditioning Yes
Natural and indirect/direct Lighting Yes Provide daylighting options in each space

Technology

Power outlet - floor and walls yes – as appropriate
Media projection system yes – Utilize existing systems
Interactive White Board Utilize existing systems
Voice, video and data ports yes – phone / intercom and data
Security yes
Portable sound system yes
Technology equipment yes – per the district's technology plan
Wireless & Hard wired Network yes – per the district's technology plan
Integrated public address & clock system yes

Educational Program Specifications – World Language

Program Objectives

Each student takes Spanish during 7th and 8th grade at Wheeler Middle School.

Each student who graduates from Wheeler High School needs to successfully earn 2.0 credits in World Language.

The Wheeler World Language Department recognizes the importance of language as a lifetime endeavor and provides students with communicative and cultural learning opportunities necessary for success in the ever-changing world. The department aims to engage students in use world languages in a purposeful way in order to become linguistically, culturally, ethnically, geographically, politically, and socially literate. It is understood by colleges that world languages are of great importance in today's world for self-development and career possibilities, as well as for communication with an understanding of cultures. The following is an outline of the World Language department's goals and objective for the students at Wheeler.

Program Goals

Instruction in World Language involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the World Language program include the following:

- A. Development of skills which are basic to our highly verbal culture;
- B. Development of an understanding and appreciation about the broad cultural heritage cultures: religious, technological, political, sociological, and artistic;
- C. Development of the powers of comprehension and coherence and fluency in expression;
- D. Development of critical judgment techniques through awareness and practice of the way language shapes our world.

Program Courses

- A. Grade 7 Spanish
- B. Grade 8 Spanish
- C. French I
- D. French IA
- E. French IB
- F. French II
- G. French III
- H. French IV
- I. Spanish I
- J. Spanish IA
- K. Spanish IB
- L. Spanish II
- M. Spanish III
- N. Spanish IV/V (ECE)

Program Activities to be Accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through materials available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The World Language classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting,

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and individualized environmental control should be provided in each space. World Language students are assessed throughout the year on their speaking and listening comprehension. A major component of assessments, including the mid-terms and final exams, consists of a listening and speaking portion. We are looking to offer AP courses in French and Spanish in the future.

Space Occupancy and Design Criteria

The World Language Department classrooms include the students and World Language Department teachers. Depending on the course, a special education teacher, paraprofessional, or a resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Board should be provided in each instructional space.

Current Space Limitations:

Lack of storage space in all World Language classrooms and appropriate school-wide workroom. The classrooms (which are shared by both Middle School and High School students) should be located in a more central location, easily accessible by students from both schools.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. The classrooms should also be placed in a more central location easily accessible by students from both schools.

Design Concept:

Program Requirements

The World Language Department space requirements will include classrooms and language lab. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for "renovate as new" will be replaced. The following pages identify specific requirements for each space.

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World Language Classrooms

Quantity: 5 (2 Middle School – 3 High School)

Proposed SF: 1 spaces of 500 SF for 12 to 15 Students in New addition.
 1 spaces of 625 SF for 12 to 15 Students in New addition.
 2 spaces of 675 SF for 15 to 18 Students in New addition.
 2 spaces of 700 SF for 18 to 20 Students in New addition (Middle School)

Space Design Concept

The classroom should be designed for an integrated approach to technology accommodating multiple furniture arrangements and classroom configurations. A folding partition would be installed between the 500SF and 625SF rooms. The space should function as an office for the teacher and study hall for students.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 12 to 20 in each space depending on the size the space.
 Circular tables for small groups with chairs – Optional arrangement
 Mobile computer stations no – wireless computers throughout building
 Teacher Desk and Chair yes – 1 of each required
 Lateral/vertical file cabinet yes – 1 four drawer required in each classroom

Fixed Equipment

Acoustical treatment yes – Meet State acoustical requirements
 Marker/white board yes – 1 at 12 linear feet
 Tack board & display boards yes – 2 at 4 linear feet
 Projection screen/surfaces yes – white board will be utilized
 Flag Bracket & Flag yes – one in each room
 Display and book shelves yes – along one wall / 15 linear feet of shelf space
 Tall wardrobe and storage cabinet yes – along one wall 3 linear feet total
 Fixed cabinets and accessible work surfaces yes – along one wall 9 linear feet of upper and lower cabinets total

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi-level energy efficient LED direct/indirect		
Windows	Operable with blinds/shades - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting No
 HVAC systems including Air Conditioning Yes
 Natural and indirect/direct Lighting Yes Provide daylighting options in each space

Technology

Power outlet - floor and walls yes – as appropriate
 Media projection system yes – Utilize existing systems
 Interactive White Board Utilize existing systems
 Voice, video and data ports yes – phone / intercom and data
 Security yes
 Portable sound system yes
 Technology equipment yes – per the district's technology plan
 Wireless & Hard wired Network yes – per the district's technology plan
 Integrated public address & clock system yes

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World Language Laboratory

Quantity: 1 Shared Space with Business computer lab

Proposed SF: 900 to 1,000 SF

Space Design Concept

The language lab should be designed for an integrated approach to technology. The furniture arrangements should accommodate a teacher workstation in the front of the room classroom configurations. This space should also function as a business computer lab.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Workstations with chairs	yes - 24 each
Teacher Desk and Chair	yes - 2 required
Lateral/vertical file cabinet	yes - 2 four drawer required

Fixed Equipment

Acoustical treatment	yes - Meet State acoustical requirements
Marker/white board	yes - 1 at 12 linear feet
Tack board & display boards	yes - 2 at 4 linear feet
Projection screen/surfaces	yes - white board will be utilized
Flag Bracket & Flag	yes - one in each room
Display and book shelves	yes - along one wall / will be the department storage space
Tall wardrobe and storage cabinet	yes - along one wall 3 linear feet total
Fixed cabinets and accessible work surfaces	yes - along one wall 9 linear feet of upper and lower cabinets total

Finishes

Floor material:	VTC		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi-level energy efficient LED direct/indirect		
Windows	Operable with blinds/ shades - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting	No
HVAC systems including Air Conditioning	yes
Natural and indirect/direct Lighting	yes - provide daylighting options in each space

Technology

Power outlet - floor and walls	yes - as appropriate for room layout
Media projection system	yes - Utilize existing systems
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address & clock system	yes
24 computers with DVD player (or equivalent technology) and 21" LCD monitors connected to network, printer and Internet	
DVD (or equivalent technology) connected to data projector	
Digital Sony Virtuoso Major Software	
24 headphones	
Printer with scanner	

Educational Program Specifications – Business

Program Objectives

The Business Education program is designed to develop a student's understanding of business, technology and economic concepts. It seeks to integrate academic concepts and technology application throughout the curriculum. It is tasked with providing students the ethical conduct and effective communication skills, which are needed to function as an effective employee and leader in the American free-market business system. Students acquire valuable business, life and personal skills necessary to function in today's dynamic and diverse world. The WHS Business curriculum focuses on developing the academic, thinking and interpersonal skills needed to become a productive worker, an economically successful entrepreneur and a keen consumer. In addition to the traditional business courses, all students graduating from Wheeler is required to earn a .5 credit in Personal Finance. The Business Department also manages the School Store, which is currently housed by the school cafeteria.

Program Goals

Instruction in Business Department involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Business program include the development of broad transferable skills which stress the understanding and demonstration of the following elements of the workplace:

- A. Planning, management, and financial skills;
- B. Technical and production skills;
- C. Labor, community, health, safety, and environmental issues;
- D. Marketing and presentation issues.

Program Courses

- A. "Invest in Yourself" – Personal Finance
- B. Accounting I & II
- C. Sports & Entertainment Management
- D. Business Law
- E. Career Exploration
- F. Introduction of Hospitality
- G. Entrepreneurship & Marketing

Program Activities to be Accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. Each business classroom contains a computer lab and is designed large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The Business classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space. The School Store is managed by the Business Department.

Space Occupancy and Design Criteria

The Business Department classrooms include the students and Business department teachers. Depending on the course, a special education teacher, paraprofessional, or a reading/writing resource teacher may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

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- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Current Space Limitations:

Lack of storage space in all Business classrooms and appropriate school-wide workroom. The classrooms (which are shared by both Middle School and High School students) should be located in a more central location easily accessible by students from both schools. The school-store is in a retro-fitted space connected to the cafeteria far from the business department spaces.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom should be designed to provide the department flexibility in the assignment of rooms based on enrollment in particular courses. The classrooms should also be placed in a more central location easily accessible by students from both schools. This will also provide better access to the school store which is connected to the cafeteria.

Design Concept:

Program Requirements

The Business Department space requirements will include classrooms/laboratories and school store. The classroom space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for "renovate as new" will be replaced. The following pages identify specific requirements for each space.

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Educational Program Specifications – Music

Program Objectives

The purpose of the Music Education Program at Wheeler Middle & High School is to develop in students the sensitivities, feelings, understanding, cultural values, enjoyment, and skills necessary for them to have an aesthetic response to utilize and enjoy music as a part of everything they do throughout life. The Arts have been identified by the U.S. Congress, The Partnership for 21st Century Skills, the National Association of Secondary Principals, and the U.S. Department of Education as part of the core curriculum which all students should take as part of their high school program. It is understood that the development of creativity is greatly enhanced through music education and the Wheeler Music Department provides a varied, significant, and cumulative musical experience for every student.

All musical performing groups provide students with the opportunity for leadership roles and the involvement of students in the overall organizational planning. Those students who display exceptional musical talent can be recommended by their directors to compete with students from towns across the state for positions in the All State High School Festival.

Program Goals

Instruction in Music Education involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The WHS Music program offers diverse learning and performing opportunities in vocal and instrumental music. The program provides opportunities for all students to:

- A. Development of skills which are basic to our highly verbal culture;
- B. Recognize the role and importance of music in their own lives and in their cultures;
- C. Perform music from a wide variety of cultural and aesthetic perspectives;
- D. Think critically and creatively;
- E. Work collaboratively;
- F. Develop self-discipline through practice and striving for excellence in their musical performances.

Program Courses

- A. Concert Band (7 – 12)
- B. Honors Concert Band
- C. Concert Choir (7 – 12)
- D. Honors Concert Choir
- E. General Music (7 & 8)
- F. Guitar Workshop
- G. Keyboard Workshop
- H. History of American Popular Music

Program Activities to be Accommodated

Students in grades 9-12 may elect a variety of classes in music. In each case classroom/music room space needs to be able to house instructional as well as practice spaces. Activities to be housed include large and small group instruction and class work. Students should be able to utilize materials in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The Music classrooms should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting and individualized environmental control should be provided in each space.

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Space Occupancy and Design Criteria

The individuals utilizing the space include students and Music department teachers. A special education paraprofessional or a teacher's aide may share space for the instruction of individuals with special needs. The following is a partial list of design elements that should be incorporated into the Music Department rehearsal room spaces:

- The rehearsal room configuration should maximize flexibility for small and large groups.
- Access to technology should be provided throughout the individual and group instructional spaces.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylighting.
- Side-lites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional rehearsal spaces should be provided.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards and Bulletin boards should be provided in each instructional space.
- Storage should be provided for student instruments.
- Sinks should be provided in a work room and at the instrument repair area.
- Music instrument equipment storage cabinets should be provided in the band rehearsal room.
- Computer workstations and data connections must be provided at each instructional space.
- Video recording equipment.
- Enhanced ventilation requirements.
- Ceiling heights appropriate to Band and Chorus rehearsal rooms should be provided.
- Student cubbies for student textbook storage near entrance doors of both the Choral and Band areas.
- Band Room
 - The Band Room will house the band and should have an acoustically appropriate space with high ceilings large enough to accommodate up to 100 students. A lockable cabinet or closet to house current percussion equipment, folio cabinets to hold folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure band storage facility adjacent to the band room will house all percussion, electronic equipment, and band music.
- Choral Room/Music Classroom
 - The Chorus/Music Room will house the choral classes and the other music courses (Guitar Workshop, Keyboard Workshop, and History of American Popular Music). The space should be an acoustically appropriate space with high ceilings large enough to accommodate up to 80 students. A lockable cabinet or closet to house current, folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure chorus storage facility adjacent to the rehearsal room will house a piano, guitars, keyboards, and music collection.

Current Space Limitations

The current music program is divided between two buildings. While the Instrumental Music program is in a space designed for them, the Choral Program is in a retrofitted classroom and using equipment (risers) which are not ADA compliant. Currently there is no space to provide electronic music and a recording studio. Appropriate storage cabinets are needed for instrument storage. There is a lack of appropriate choral classroom and practice room space and instrument/general storage space.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom and program space should be designed to provide the department flexibility based on enrollment in particular courses. The music program will be supplemented with additional storage for instrument, risers and general storage and a Recording

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Studio. The classrooms should also be placed in a central location easily accessible by students from both schools. In addition, the program should be near the concert space, without significant moving of instruments/risers required.

Design Concept:

Design concept for the music rooms is based on developing space that meet State and National Standard from based on data obtained from the following organizations:

- A. *The State of Connecticut* - Design Guidelines for Educational Facilities
- B. *Music Educators National Conference (MENC)* - Music Facilities: Building Equipment & Renovations by Harold P. Geerdes
- C. *Wenger Corporation* - Planning Guide for Secondary School Music Facilities standards for the design of music facilities.

Program Requirements

The space should be designed as a flexible learning environment that is able to accommodate the specific program requirements. The inclusion of technology and the ability to access technology is an imperative. All furniture and equipment will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for “renovate as new” will be replaced. The following pages identify specific requirements for each space.

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Choral Rehearsal/General Music Classroom

Quantity: 1
Proposed SF: 750 to 800 SF

Space Design Concept

The Chorus Rehearsal/General Music Classroom will house the various vocal classes and vocal ensembles and an acoustically appropriate space with high ceilings large enough to accommodate 50 students. A lockable cabinet or closet to house current, folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure chorus storage facility adjacent to the rehearsal room will house a piano, risers and records. Access to the auditorium and stage is necessary for final rehearsals.

Program Activities

Support the instruction and practice of various levels of vocal programs

Program Adjacencies

Access to piano storage - separate
Access to practice rooms – adjacent to the band room

Loose Furnishings

Music stands w/ carts	Reuse existing
Program equipment	Reuse existing
Risers	Reuse existing
Storage for music folders	Reuse existing
Chairs	Reuse existing
Mobile computer stations	No- Wireless capabilities by portable devices
Teacher Desk and Chair	yes – one of each required
Lateral file cabinet	yes – one four drawer required

Fixed Equipment

Acoustical treatment	yes – Meet State acoustical requirements
Marker/white board	yes – 1 at 12 linear feet with music staff
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	yes – white board will be utilized
Flag Bracket & Flag	yes – one in each room
Display and book shelves	yes – along one wall / 15 linear feet of shelf space
Tall wardrobe and storage cabinet	yes – along one wall 3 linear feet total
Fixed cabinets and accessible work surfaces	yes – along one wall 9 linear feet of upper and lower cabinets total

Finishes

floor material:	Tile		
base material:	Rubber		
wall material:	Block / Gyp	finish:	Paint
ceiling material:	Acoustical Tile	height:	18'-0" minimum
hardware:	ADA compliant		
lighting	multi-level energy efficient LED direct/indirect		
fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning	yes
Natural and indirect Lighting	yes – provide daylighting options
Operable partition	yes – opening to the cafeteria seating
Acoustical Controls & Sound Transmission	yes – sound separation with cafeteria

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes – utilize existing systems
Interactive White Board	yes - utilize existing systems
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address & clock system	yes

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Choral/Band Practice Room – Share space with Band (existing)

Quantity: 2
Proposed SF: 50 to 75 SF Each

Space Design Concept

The practice room should be designed for an individual practice and instruction.

Program Activities

Choral music practice

Loose Furnishings

Music Stand w/carts
Folding chairs

Program Adjacencies

Access to rehearsal rooms

Fixed Equipment

Acoustical treatment	yes
Marker/white board	no
Tack board & display boards	no

Finishes

floor material:	Tile		
base material:	Rubber		
wall material:	Block / Gyp	finish:	Paint
ceiling material:	Acoustical Tile	height:	8'-0" minimum
hardware:	ADA compliant		
lighting	multi-level direct/indirect		
fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Acoustical Controls and Sound Transmission
Sound Isolated wood door

Technology

Power outlet - floor and walls	yes
Voice, video and data ports	yes
Security	yes
Portable sound system	yes
Technology equipment	yes – per the schools technology plan

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Choral General Storage/Choral Library – Share space with Band (existing)

Quantity: 1
Proposed SF: 150 to 200 SF Each

Space Design Concept

The storage should be designed to accommodate supplies, media storage, student projects and music department specific equipment.

Program Activities

Storage of educational materials.
Storage of sheet music, CD's, MP3's & Books
Access to rehearsal room and office

Loose Furnishings

Lateral file cabinet
Shelving units

Fixed Equipment

Display and book shelves	yes
Secure storage cabinet	yes

Finishes

floor material:	Tile		
base material:	Rubber		
wall material:	Block / Gyp	finish:	Paint
ceiling material:	Acoustical Tile	height:	8'-0" minimum
hardware:	ada compliant		
lighting	Standard		
fire extinguisher & suppression	per code		

Special Requirements

HVAC systems exhaust
Humidity control

Technology

Power outlet - walls	yes
Security	yes

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Band/Orchestra Rehearsal Room – (existing)

Quantity: 1

Existing SF: 2,250 SF

Space Design Concept

The Band Room will house the various levels of band and orchestra classes. An acoustically appropriate space with high ceilings large enough to accommodate 100 students. A lockable cabinet or closet to house current percussion equipment, folio cabinets to hold folders for all ensembles, conductor's chair, and podium, and built-in and lockable stereo equipment and tuner are needed. A secure band storage facility adjacent to the band room will house all marching percussion, electronic equipment for jazz, and band music. Access to the auditorium and stage is recommended.

Program Activities

Support the instruction and practice of various levels of band programs

Program Adjacencies

Access to instrument storage in room along walls

Access to seasonal instrument storage - separate

Access to practice rooms and office

Access to percussion storage

Loose Furnishings

Music stands w/ carts

Program equipment

Storage for music folders

Chairs

Mobile computer stations

No- Wireless capabilities by portable devices

Teacher Desk and Chair

Lateral file cabinet

Fixed Equipment

Acoustical treatment

yes

Marker/white board

yes – with music staff

Tack board & display boards

yes

Projection screen/surfaces

yes

Display and book shelves

yes

Tall wardrobe and storage cabinet

yes

Fixed cabinets and accessible work surfaces

yes

Finishes

floor material:

Tile

base material:

Rubber

wall material:

Block /Gyp

finish:

Paint

ceiling material:

Acoustical Tile

height:

18'-0" minimum

hardware:

ADA compliant

lighting

multi-level direct/indirect

fire extinguisher & suppression

per code

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Acoustical Controls and Sound Transmission

Technology

Power outlet - floor and walls

yes

Media projection system

yes

Interactive White Board

yes

Voice, video and data ports

yes

Security

yes

Portable sound system

yes

Technology equipment

yes – per the schools technology plan

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Band / Orchestra Practice Room

Quantity: 1
Proposed SF: 50 to 75 SF Each – 2 Individual Practice
Proposed SF: 200 to 250 SF Each – 1 Ensemble Practice

Space Design Concept

The practice room should be designed for an individual practice and instruction.

Program Activities

Instrumental music practice

Loose Furnishings

Music Stand w/carts
Folding chairs

Program Adjacencies

Access to rehearsal rooms

Fixed Equipment

Acoustical treatment	yes
Marker/white board	yes
Tack board & display boards	yes

Finishes

floor material:	Tile		
base material:	Rubber		
wall material:	Block / Gyp	finish:	Paint
ceiling material:	Acoustical Tile	height:	8'-0" minimum
hardware:	ada compliant		
lighting	multi-level direct/indirect		
fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Acoustical control
Sound Isolated wood door
Acoustical Controls and Sound Transmission

Technology

Power outlet - floor and walls	yes
Voice, video and data ports	yes
Security	yes
Portable sound system	yes
Technology equipment	yes – per the schools technology plan

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Band / Orchestra Storage/Library

Quantity: 1
Proposed SF: 200 to 250 SF

Space Design Concept

The storage should be designed to accommodate music supplies, media storage, student projects, and music department specific equipment.

Program Activities

Storage of educational materials.
Storage of sheet music, CD's, MP3's & Books
Access to rehearsal room and office

Loose Furnishings

Lateral file cabinet
Shelving units

Fixed Equipment

Display and book shelves	yes
Secure storage cabinet	yes

Finishes

floor material:	Tile		
base material:	Rubber		
wall material:	Block / Gyp	finish:	Paint
ceiling material:	Acoustical Tile	height:	8'-0" minimum
hardware:	ada compliant		
lighting	Standard		
fire extinguisher & suppression	per code		

Special Requirements

HVAC systems exhaust
Humidity control

Technology

Power outlet - walls	yes
Security	yes

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Band / Orchestra Instrument Storage

Quantity: 1
Proposed SF: 200 to 250 SF

Space Design Concept

The storage should be designed to accommodate students musical instruments, and music department specific equipment.

Program Activities

Storage of educational materials.
Storage of sheet music, CD's, MP3's & Books
Access to rehearsal room and office

Loose Furnishings

Lateral file cabinet
Shelving units

Fixed Equipment

Display and book shelves	yes
Secure storage cabinet	yes

Finishes

floor material:	Tile		
base material:	Rubber		
wall material:	Block / Gyp	finish:	Paint
ceiling material:	Acoustical Tile	height:	8'-0" minimum
hardware:	ada compliant		
lighting	Standard		
fire extinguisher & suppression	per code		

Special Requirements

HVAC systems exhaust
Humidity control

Technology

Power outlet - walls	yes
Security	yes

Band Office

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Quantity: 1

Proposed SF: 150 to 200 SF

Space Design Concept

The office should be designed to accommodate the teacher and a small conference area. The space should be adjacent to the rehearsal room.

Program Activities

Teacher planning and preparation room.

Conference Space

Loose Furnishings

Lateral file cabinet

Conference Table and Chairs

Desks and chairs – 1

Shelving Units – 2 at 12 Linear feet each

Fixed Equipment

Tack board & display boards

yes – with music staff

Display and book shelves

yes

Secure storage cabinet

yes

Finishes

Floor material:

Carpet

Base material:

Rubber

Wall material:

Block / Sheetrock

Wall Finish:

Paint

Ceiling material:

Acoustical Tile

Ceiling height:

8'-0" minimum

Hardware:

ADA compliant

Lighting

Multi level direct/indirect

Fire extinguisher & suppression

Per code

Special Requirements

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Acoustical Controls and Sound Transmission

Technology

Power outlet - walls

yes

Voice, video and data ports

yes

Security

yes – per the districts security plan

Technology equipment

yes – per the schools technology plan

Educational Program Specifications – Art

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Program Objectives

Wheeler Middle and High School is comprised of students with a wide range of abilities, interest, and social backgrounds. The Art courses offered at WHS provide many opportunities for students to develop their artistic talents. The Arts have been identified by the U.S. Congress, The Partnership for 21st Century Skills, the National Association of Secondary Principals, and the U.S. Department of Education as part of the core curriculum which all students should take as part of their high school program. The Art Department offers diverse learning opportunities including painting, drawing, sculpture, ceramics, crafts, printmaking, and technical design. Through the art program, students learn to appreciate the past and present artistic expressions of others and, in doing so, expand their own horizons and develop an awareness of the role of artists in society.

Opportunities exist for students to display their artwork within the school, district, and the greater community. Those students who display exceptional artistic talent can be recommended by their teachers to submit their work to the Connecticut Regional Scholastic Arts Awards Program, a juried student art show, featuring work created by students from across the state. Exhibition opportunities for all art students are also available in both juried and open shows at the regional, state and national levels.

The arts play a profound role in learning. Experiences in the arts are basic to learning. The arts curriculum offers one way to formulate questions, construct knowledge, express meaning, and solve problems. The arts enhance language facility and the development of expressive skills. Self-esteem, social awareness, critical thinking, sensitivity to others, sensitivity to one's environment, and problem solving are all enhanced with the dynamics of arts infused approach.

Program Goals

Instruction in Art involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the art program include the following:

- A. Development of proficiency in the use of a variety of tools, materials, and techniques;
- B. Development of an understanding of the elements and principles of design;
- C. Development of a student's ability to intelligently judge art and show an appreciation of the visual arts;
- D. Development of visual perception and to challenge students to work toward excellence;
- E. Direction for students who are seeking art-related careers;
- F. Inspiration toward creativity so that students' lives may be enriched.

Program Courses

- A. Grade 7 Art
- B. Grade 8 Art
- C. Introduction to 2D Art
- D. Introduction to 3D Art
- E. 2D Art Studio
- F. 3D Art Studio
- G. Advanced Studio Art
- H. Portfolio Studio Art
- I. UConn Drawing/ECE
- J. Visual Art & Technology
- K. Advanced Visual Art & Technology

Program Activities to be Accommodated

Studios are needed to accommodate all art courses. One of the studios should contain a computer graphics lab which is needed for Visual Arts & Technology courses. A kiln room is needed for the clay component. A

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multipurpose lecture room is needed for slide and video presentations and lectures, as well as the collaborative classes. Display cases for student work should be created throughout the school as well as an art exhibition space at the main entrance of the school. Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned by utilization material available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference therefore appropriate quiet space should be provided. Natural light, multi-level lighting and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The Art Department classrooms include the students and Art department teachers. Depending on the course, a special education teacher, and/or a paraprofessional may share space for the instruction of small groups or individuals within the regular art studio. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The studio configuration should maximize flexibility and provide lecture as well as studio space.
- Access to technology should be provided through the studio.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional studio function should be provided.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards and Bulletin Boards should be provided in each instructional space.
- Storage should be provided for ongoing student projects within the studio and in storage rooms.
- Large deep sinks with clay-traps
- Adjustable multi directional lighting
- Art courtyard for student instruction and sculpture displays
- Student display gallery
- Computer graphic workstations within the studio and a graphics lab
- Dedicated Kiln Room
- Enhanced ventilation requirements
- Student display shelving in all studios
- Each studio space should be able to accommodate 20 students.

Current Space Limitations

Currently the two Art Studios/Rooms are not near each other or centrally located so they can be accessed equally by both the High School and Middle School students. This makes collaboration difficult. The current Middle School Art Studio/Room is a retrofitted classroom space, which does not meet the needs of the students and does not have the appropriate support space for a kiln room, storage, student display and gallery space. The Middle School space does not have appropriate windows or enough natural light. The High School Studio/Room does not have the appropriate support space for a graphics lab. Storage is a serious problem in both spaces.

Proposed Program and Concept Plan

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The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The studio and program space should be designed to provide the department flexibility based on enrollment and the needs of particular courses. The High School studio will have computer graphic workstations for small groups. The Art department workroom and office is located between the studios with access to each space. The studios should also be placed near each other and in a central location easily accessible by students from both schools. The Art department will share space with the Technology Education department. The gallery/display space will be used by both departments to showcase student work. The adjacency to the Technology Department will provide opportunities for students focusing on sculpture and industrial design.

Design Concept:

Program Requirements

The Art Department space requirements include two studios, storage rooms, kiln room, graphics lab and offices. The space should be designed as a flexible learning environment that is able to accommodate the specific program requirements. The inclusion of technology and computer graphics with a graphics lab and the ability to access technology within the studio is an imperative.

Art Studio – 3D

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Quantity: 1

Proposed SF: 1,000 to 1,200 SF Each

Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an office for the teachers.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction. Display of student work and appropriate storage for on-going projects is required in each studio.

Loose Furnishings

Modular rectangular art tables with chairs – 20 in each space

Circular tables for small groups with chairs

Mobile computer stations

no - wireless computing throughout building

Teacher Desk and Chair

Lateral file cabinet

Acoustical treatment

yes

Marker/white board (Multiple)

yes – 2 at 12 linear feet

Tack board & display boards

yes – minimum 20 linear feet

Projection screen/surfaces

yes

Display and book shelves

yes – along one wall / will be the department storage space

Tall wardrobe and storage cabinet

yes – along one wall / will be the department storage space

Fixed cabinets and accessible work surfaces

yes

Finishes

Floor material:

Polished Concrete

Base material:

Rubber / Vinyl

Wall material:

Block / Sheetrock

finish:

Paint

Ceiling material:

Open ceiling

Hardware:

ADA compliant

Lighting

Multi level direct/indirect

Windows

Operable with blinds - Maximize natural light

Fire extinguisher & suppression

per code

Special Requirements

Specialty lighting

Deep sinks with clay traps

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting

Operable windows

Power requirements for potters' wheels

Floor drains with clay traps and access panels.

Adjacent Kiln Room with separate storage room.

Technology

Power outlet - floor and walls

yes – as appropriate

Media projection system

yes

Voice, video and data ports

yes – phone / intercom and data

Security

yes

Portable sound system

yes

Technology equipment

yes – per the district's technology plan

Wireless & Hard wired Network

yes – per the district's technology plan

Integrated public address system

yes

Art Studio – 2D

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Quantity: 1
Proposed SF: 1,000 to 1,200 SF Each

Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an office for the teachers.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction. Display of student work and appropriate storage for on-going projects is required in each studio.

Loose Furnishings

Modular rectangular art tables with chairs – 20 in each space	
Circular tables for small groups with chairs	
Mobile computer stations	no - wireless computing throughout building
Teacher Desk and Chair	
Lateral file cabinet	
Acoustical treatment	yes
Marker/white board (Multiple)	yes – 2 at 12 linear feet
Tack board & display boards	yes – minimum 20 linear feet
Projection screen/surfaces	yes
Display and book shelves	yes – along one wall / will be the department storage space
Tall wardrobe and storage cabinet	yes – along one wall / will be the department storage space
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Polished Concrete		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Open ceiling		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
Deep sinks with clay traps
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Graphics Lab

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Quantity: 1 (shared with Technology Department)
Proposed SF: 1000 to 1,200 SF Each

Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The computers should be along the wall with a center table used for lecture/cooperative style instruction.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Computer Workstations with chairs along outside wall - 20 Each
Rectangle table for small groups with chairs - 15
Work Tables
Teacher Desk and Chair
Lateral file cabinet

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes - 2 at 12 linear feet
Tack board & display boards	yes - 2 at 4 linear feet
Projection screen/surfaces	yes
Flag Bracket & Flag	yes
Display and book shelves	yes
Tall wardrobe and storage cabinet	yes - lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting Multi-Level
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes - as appropriate
Media projection system	yes
Smart boards	yes
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address system	yes

Art Department Storage

Quantity: 1 (shared by both Art Rooms)

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Proposed SF: 300 to 500 SF

Space Design Concept

The storage should be designed to accommodate art supplies, media storage, student projects, drying racks and art department specific equipment.

Program Activities

Storage of educational materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material: Polished Concrete
Base material: Rubber
Wall material: Block / Sheetrock
Wall Finish: Paint
Ceiling material: Acoustical Tile
Ceiling height: 8'-0" minimum
Hardware: ADA compliant - Lockable
Lighting: Standard
Fire extinguisher & suppression: Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

Art Department Workroom and Office

Quantity: 1 (Shared by both Art Rooms)

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The Technology Education Department provides a link from the traditional areas of study to the technologies of the future. Technology Education is based on experiential learning models and career exploration that is available to all students. The curriculum allows students to shape and change the physical world to meet needs, by manipulating materials, tools, and techniques. The department strives to expose students to a wide array of technological experiences and gain applied experiences in the traditional study areas. The Technology Lab allows students to use CAD and other graphics related technology. The program also includes Video Production, yet the program is housed in another part of the building which limits its cohesiveness.

All programs are designed to contain points of integration for self-reflection, evaluation, writing, reasoning, and analysis using mathematical models with a strong connection to the sciences.

Program Goals

Instruction in Technology Education involves the 21st Century Learning Expectations writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the technical education program include the following:

- A. Development of problem-solving strategies and work habits which will result in almost any career and/or occupation;
- B. Development of a greater appreciation for the work of craft workers and the skills required of that work;
- C. Exploration of a variety of activities related to many areas where science, technology, engineering, and math intersect in society;
- D. Development of students to see how “systems” work together and a chance to put much of the academic class instruction to work in an applied way.

Program Courses

- A. Materials Processing II
- B. Technical Drafting/CAD
- C. Innovation and Invention
- D. Architectural Drafting and Design
- E. Graphic Design
- F. Video Production

Program Activities to be Accommodated

The Technology Education Coursework focuses on the development and application of technology and the effect that technology has on people, society, and the environment. The video production program, which is currently housed in the Media Center, provides students with hands-on experiences in the field of communication and provides them with an authentic experience working in the video field. Experience will be gained in writing scripts, idea development, interviewing skills, and on-camera presentation. The video production program is one of technology education's clearest integration points, as it offers students the opportunities to implement their academic experiences with a hands-on, minds-on, authentic learning experience.

The Technology Lab should contain up to 20 computer stations which are needed for a variety of technology courses. The Tech Lab must also have a multipurpose lecture room for slide and video presentations and lectures, as well as the collaborative classes. Display cases for student work should be created throughout the school as well as an art exhibition space at the main entrance of the school. Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. Each classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet

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individually with teachers in conference; therefore, appropriate quiet space should be provided. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The Technology Department classrooms/labs include the students and Technology department teachers. Depending on the course, a special education teacher, and/or a paraprofessional may share space for the instruction of small groups or individuals within the labs. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The Lab configuration should maximize flexibility and provide lecture as well as practical application lab space.
- Access to technology should be provided through the Labs.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional studio function should be provided.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards and Bulletin Boards should be provided in each instructional space.
- Storage should be provided for ongoing student projects within the lab and in storage rooms.
- Large deep sinks, eyewash, body showers, and other safety equipment (as needed)
- Adjustable multi-directional lighting.
- Student display gallery.
- Computer graphic workstations within the technology lab.
- Video recording equipment and broadcast facilities (removed from the Media Center)
- Enhanced ventilation requirements including dust collection if required.
- Student display shelving in all Labs.
- Appropriate work station for each lab based on the program requirements.
- Each Technology Department work space should accommodate up to 20 students.

Existing Conditions

The Technology Education spaces, although adequate in size, lack the appropriate support space and equipment, storage, student display and gallery space and appropriate requirement for environmental comfort. Currently the two Tech and Art Studios/Rooms are not near each other or centrally located so they can be accessed equally by both the High School and Middle School students. The space, as currently designed, is having an impact on the instructional programs which can be offered; with more and more emphasis being placed on technology in the construction process, the current configuration, limits our program.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The studio and program space should be designed to provide the department flexibility based on enrollment and the needs of particular courses. The Technology spaces should also be placed near each other and in a central location easily accessible by students from both schools. The Art department will share space with the Technology Education department. The gallery/display space will be used by both departments to showcase student work. The adjacency to the Technology Department will provide opportunities for students focusing on sculpture and industrial design. The new/redesigned labs have been supplemented with additional storage and appropriately accommodate the display, storage and work areas with the labs. A gallery space has been developed outside the art studios to display student

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work and also function as an informal meeting area. Each lab will have several computer graphic workstations for small groups and have access to the graphics and CADD labs. The Tech Ed department workroom and office is located between the studios with access to each space.

Design Concept:

Program Requirements

The Tech Ed Department space requirements include space for the current program and expansion of the program in the future. It also includes storage rooms and offices. The space should be designed as a flexible learning environment that is able to accommodate the specific program requirements. The inclusion of technology and the ability to access technology within the studio is an imperative.

CADD/DESIGN LAB

Quantity: 1

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Proposed SF: 1,000 to 1,200 SF Each (Can be shared with the Graphic lab)

Space Design Concept

The lab should be designed for an integrated approach to technology and multiple furniture arrangements and room configurations.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction. The lab will be equipped with computer work stations and planning areas for all students. Large format printing, storage of printing and electronic supplies and presentations of student work need to be accommodated.

Loose Furnishings

Workstations with side tables for large format documents
Circular tables for small groups with chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinet
Various printers

Fixed Furnishings

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 2 at 12 linear feet
Tack board & display boards	yes – minimum 20 linear feet
Projection screen/surfaces	yes
Display and book shelves	yes – 12 linear feet
Tall wardrobe and storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Concrete		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Open ceiling		
Hardware:	ADA compliant		
Lighting	Multi-level direct/indirect and task lighting		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
Dedicated electrical circuits with a UPS back up system
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows
Dust Collection System
Door to open to Manufacturing Lab

Technology

Power outlet - floor and walls	yes – as appropriate to provide multiple workstation configurations
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Graphics Lab

Quantity: 1 (shared with CADD Lab)

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Proposed SF: 1000 to 1,200 SF Each

Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The computers should be along the wall with a center table used for lecture/cooperative style instruction.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

- Computer Workstations with chairs along outside wall - 20 Each
- Rectangle table for small groups with chairs - 15
- Work Tables
- Teacher Desk and Chair
- Lateral file cabinet
- District-wide Printing Capabilities - including scanners, copiers and printers

Fixed Equipment

- | | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes - 2 at 12 linear feet |
| Tack board & display boards | yes - 2 at 4 linear feet |
| Projection screen/surfaces | yes |
| Flag Bracket & Flag | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | yes - lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

- | | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

- Specialty lighting Multi-Level
- HVAC systems including Air Conditioning
- Natural and indirect/direct Lighting
- Operable windows
- Sink

Technology

- | | |
|----------------------------------|--|
| Power outlet - floor and walls | yes - as appropriate |
| Media projection system | yes |
| Smart boards | yes |
| Voice, video and data ports | yes - phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes - per the district's technology plan |
| Wireless & Hard wired Network | yes - per the district's technology plan |
| Integrated public address system | yes |

Video Production Studio

Quantity: 1

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Proposed SF: 800 to 1,000 SF

Space Design Concept

The students should be able to demonstrate the fundamental knowledge and application of the elements of audio-video production and execution. Technical knowledge will be realized through workshop experiences, which combine theory and hands-on practice. The studio may be shared with the local community access television group. The lab should be designed for an integrated approach to technology. This space should be adjacent to the video production lab.

Program Activities

Students will produce live television cable casts. Students will also participate in other production and post-production editing.

Loose Furnishings

Circular tables for small groups with chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinets

Fixed Furnishings

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 2 at 12 linear feet
Tack board & display boards	yes – minimum 20 linear feet
Projection screen/surfaces	yes
Display and book shelves	no
Tall wardrobe and storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes
Green screen background	yes

Finishes

Floor material:	VCT /VET and Area Rug		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Open ceiling with pipe grid		
Hardware:	ADA compliant		
Lighting	Multi-level direct/indirect studio lighting		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting (assorted systems, roughly 6-7 units for a small space)
Dedicated electrical circuits with a UPS back up system
HVAC systems including Air Conditioning
1 video switcher
2 Canon, XL-2 (with chargers and cases)
2 Bogen-Manfrotta tripods,
2 tripod carriages
2 teleprompters
2 way wireless intercom system with multiple headsets (preferable 4 terminals)
6 Microphones (2 stick, 4 lavalier)
2, 22 inch monitors (preferably flat screen)
Curtains for backdrops

Technology

Power outlet - floor and walls	yes – as appropriate to provide multiple workstation configurations
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Video Production Lab - Control Room & Video Editing

Quantity: 1

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Proposed SF: 150 to 250 SF

Space Design Concept

The students should be able to demonstrate the fundamental knowledge and application of the elements of audio-video production and execution. Technical knowledge will be realized through workshop experiences, which combine theory and hands-on practice. The studio may be shared with the local community access television group. The lab should be designed for an integrated approach to technology. This space should be adjacent to the video production studio.

Program Activities

Students will also participate in production and post-production editing.

Loose Furnishings

Workstations with editing equipment
Circular tables for small groups with chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinets

Fixed Furnishings

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet
Tack board & display boards	yes – minimum 10 linear feet
Projection screen/surfaces	yes
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes – designed to accommodate the editing and production console.
Blue screen background	yes
Lighting pipe grid	

Finishes

Floor material:	VCT /VET and Area Rug		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Open ceiling with pipe grid		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect studio lighting		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
Dedicated electrical circuits with a UPS back up system
HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate to provide multiple workstation configurations
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Educational Program Specifications – Computers/Prototypical Resource Lab

Program Objectives

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Wheeler Middle and High School provides a comprehensive computer program which mirrors the current technological trends which provides our students with the proper skills so they can be technologically literate and be an active and productive member of society. The Computer Department is housed within the Computer Resource Lab which allows courses ranging from website design to using computer technology in the creation of graphic designs and advertisement.

Program Goals

Instruction in the Computer Department involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Computer program include the following:

- A. Encourage creativity in producing various outputs of design.
- B. Development of an understanding of design.
- C. Development of Computer skills to challenge the student to produce excellent work.

Program Courses

- A. Creative Designs using Computer Technology
- B. Advanced Creative Designs using Computer Technology
- C. Web Design
- D. Video Production I/II

Program Activities to be Accommodated

The lab space needs to be both instructional and administratively flexible. These labs shall be identical and shall be designed to provide support to classes when the curriculum requires this type of setting. They should be designed so that activities which include large and small group instruction can occur in the space. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through materials available in the classroom, as well as through the technological resources of voice, video, and print media. The lab must be large enough to accommodate 25 students and allow space for teacher supervision of small groups, and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The lab should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The Computer Department classrooms/Resource Lab includes the students and the department teachers. Depending on the course, a special education teacher and/or paraprofessional may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- 25 Computer work stations for students.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.

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- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Existing Conditions

The Computer Department spaces, although adequate in size, lack the appropriate storage, student display and gallery space and appropriate requirement for environmental comfort. Currently the two lab spaces are not near each other or centrally located so they can be accessed equally by both the High School and Middle School students. With more and more emphasis being placed on technology, the current configuration, limits what we can offer as a part of our program.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The studio and program space should be designed to provide the department flexibility based on enrollment and the needs of particular courses. The lab spaces should also be placed near each other and in a central location easily accessible by students from both schools. The new/redesigned labs have been supplemented with additional storage and appropriately accommodate the display, storage and work areas with the labs.

Design Concept:

Program Requirements

The Computer Department space requirements include space for the current program and expansion of the program in the future. The space should be designed as a flexible learning environment that is able to accommodate the specific program requirements. The inclusion of technology and the ability to access technology within the studio is an imperative.

Computers/Prototypical Resource Lab

Quantity: 2 (one can be accessed as the World Language Laboratory)

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Wheeler High School has a comprehensive Student Support Structure. This program includes the special education teachers, self-contained staff, paraprofessionals, the district-wide social worker, the school psychologist, the school counselors, the school nurse, the speech and language pathologist, and the occupational and physical therapist. In addition, the Reading teachers and the Student Study Center all provide support to our students. These professionals provide a continuum of services in self-contained and mainstream settings. With several new intervention initiatives, such as SRBI and PBIS, the number of students requiring services has been increasing over the past several years. All students who attend Wheeler, no matter their educational abilities, are entitled to receive appropriate educational services in the least restrictive environment that will enable them to full equality of access. The diversity of educational and behavioral student support needs necessitates a variety of spaces to accommodate instructional activities.

Program Goals

Instruction and support involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. In addition to the educational programs designed specifically to meet the individualized needs of the students, Individualized Education Plans (IEP) are implemented in inclusive settings with appropriate support staff. Other support staff provides individualized student support based upon academic needs defined by assessment data, behavioral data, social-emotional concerns, and state requirements, such as the Student Success Plan and assisting in the college planning process.

Program Activities to be Accommodated

Student Support Services consists of Resource Rooms, Student Study Center, Self-contained setting, Speech and Language Services, Psychological Services, Social Work Services, the school nurse, and School Counseling Services. Other appropriate services as determined by the students' Individual Education Plans (IEP) are also included. As all of the above are fairly specialized, so are their respective activities. Activities range from regular classroom instruction to testing, learning fundamental living skills in a residential-like environment, traditional counseling services, specialized physical education, and other specialized activities aimed at the individual.

Space Occupancy and Design Criteria

The space design criterion includes the student's special education teacher, professionals, and aides. The following is a partial list of design elements that should be incorporated into the all spaces to accommodate students with special needs:

- A. Sensory-friendly lighting and acoustics would be beneficial for students with autism, hearing difficulties, and attention deficits.
- B. Self-contained programs should be placed with ready access to the mainstream classrooms.
- C. Special education classrooms must provide efficient emergency egress.
- D. Self-contained settings should be close to exits to allow for easy access to transportation.
- E. All classrooms should have ample locked storage space for materials and records.
- F. Self-contained, flexible work stations should support both individual and small group instruction.
- G. Classroom technology in special education settings should be equal to that offered in mainstream settings.
- H. All classrooms should be equipped with a telephone line, clock, multiple outlets, whiteboards, bulletin boards, and wiring for computer network capability and internet access.
- I. Each classroom should have audiovisual capability and the flexibility to accommodate large and small group activities and individual instruction.
- J. General education classrooms will require commensurate standards for the inclusion of special education students.
- K. Access to technology should be provided in all spaces.
- L. Digital projection systems should be utilized for visual display.
- M. Interactive whiteboards should be installed in all instructional areas.
- N. Ceiling height and windows should maximize natural light and accommodate daylight.

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- O. Sidelites must be provided adjacent to all classroom doors.
- P. Cabinets and casework appropriate to the instructional studio function should be provided.
- Q. Speaker systems should be incorporated into all instructional spaces.
- R. Whiteboards and Bulletin Boards should be provided in each instructional space.
- S. ***Student Support Services Conference/Testing Space.***
 - o This conference room will be the main venue for PPT's, Annual, and Triennial Reviews. (Right now these meetings are housed in the School Counseling Suite, which causes scheduling issues with the counseling and special education department). This space can be used as the Speech/Supplemental Instruction/Testing Space.
 - o Whiteboard and Tack Boards
 - o Should be able to fit up to 15 people.
 - o Sound field enhancement
 - o Privacy considerations
 - o Built-Ins
 - o Technology capability for up to 4 computers.
- T. ***Student Study Center***
 - o Space for academic interventions within the high school setting
 - o Whiteboard and Tack Board
 - o Build-Ins
 - o Technology capability for up to 8 computers
 - o Privacy considerations
- U. ***Reading Room***
 - o Traditional classroom setting for up to 10 students and a teacher and paraprofessional

School Counseling Department (Suite)

The School Counseling department is a service to students, teachers, parents, the community, and the professional staff of Wheeler High School. In general the counseling department, both on an individual and group basis, assists each student with his/her emotional and physical needs. Counselors with specialized professional training provide the following services:

- A. Individual and group counseling
- B. College preparation and application processes
- C. Developmental guidance
- D. New student orientation
- E. Teacher and parent consultation
- F. Transition planning
- G. Consulting
- H. Career Awareness
- I. Referral
- J. Screening
- K. Testing and test preparation
- L. Monitoring placed students
- M. Enrollment and transfer paperwork
- N. Scheduling
- O. Student Intervention Team Management
- P. Development and management of Student Success Plans

Space Occupancy and Design Criteria

Occupancy:

- A. School Counselor
 - a. One grades 7 – 9
 - b. One grades 10 – 12
- B. District Social Worker

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- C. School Psychologist
- D. Guidance Secretary

Design Criteria:

- A. Conference Room
 - a. Fit up to 15 people
 - b. Built-Ins
 - c. Privacy Considerations
- B. Five (5) Offices
- C. Office/Reception Area
- D. Private waiting area
- E. Student Records Vault
 - a. This currently does not exist. File cabinets are stored in many different spaces throughout the school, in and out of the counseling suite area.
- F. Supply Closet
- G. Resource Center (Career, college and Student Success Plan)

School Health Clinic (Suite)

The Wheeler High School Health Clinic is needed to help students achieve and maintain high standards of health and recognize the relationship of health with educational programs. The school nurse also acts as a resource person for health education programs, families, students and provides support to school personnel. The nurse should be involved in the coordination with special education students.

The program encompasses many activities, including routine and special physical examinations, screening tests, vision and height/weight assessments, hearing assessments, scoliosis exam, and follow-up immunization against communicable disease. The school nurse also manages all athletic and yearly health paperwork, a requirement to attend school or participate in athletics. Unlike now, the health clinic should have adequate private space for health examinations, conferences with students/parents, rest, and isolation. A exterior window is required.

Space Occupancy and Design Criteria

Occupancy:

- A. School Nurse
- B. Nurse's Aid (part-time)

Design Criteria:

- A. Student Records Vault
 - a. This currently does not exist. File cabinets are stored in many different spaces throughout the office, which takes up a lot of space.
- B. Waiting area for up to 5 students (the current one only houses one comfortably)
 - a. Examination Area/Room (with dressing room, Sink & storage)
- C. Nurse's Office Space
- D. Isolation Space (currently houses two students and acts as nurse storage)
- E. Handicap Bathroom and sink (the nurse's office currently uses the Main Office bathroom)

Adaptive Living Skills - ALS

Quantity: - 1
Proposed SF: 700 to 950 SF

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Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space adjacencies include a) An accessible bathroom, b) a secondary classroom which includes space for therapy, functional skills, assistive technology work and instruction; c) A fully equipped OT/PT therapy room. The classroom should accommodate 12 – 15 students and be located in close proximity to the main office.

Program Activities

Instructional space for students with disabilities to learn life skills. The space will provide a private, safe, secure area for de-escalation and counseling services and a storage room within the classroom for equipment such as wheel chairs, walkers, therapy equipment etc.

Loose Furnishings

Modular rectangular art tables with chairs
Circular tables for small groups with chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinet
Student and Staff Lockers

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 2 at 12 linear feet
Tack board & display boards	yes – minimum 20 linear feet
Projection screen/surfaces	yes
Display and book shelves	yes – 8 linear feet
Tall wardrobe and storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	VCT / VET		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Open ceiling		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Resource Room

Quantity: 4 (2 Middle School and 2 High School)

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Proposed SF: 350 to 450 SF Each

Space Design Concept

The small group classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an instructional classroom for eight to ten students, and will be dispersed among the general classrooms. This space is where special education teachers and para-professionals work out of.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Computer Workstations with chairs (8 Each)
 Mobile computer stations (2 Each) in addition to wireless capabilities
 Work Tables
 Teacher Desk and Chair - 2
 Lateral file cabinet

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 2 at 12 linear feet
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	yes
Flag Bracket & Flag	yes
Display and book shelves	yes
Tall wardrobe and storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
 Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Smart boards	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Special Education Department Storage

Quantity: 1

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Proposed SF: 200 to 250 SF Each

Space Design Concept

The storage should be designed to accommodate art supplies, media storage, student records, and department specific equipment.

Program Activities

Storage of educational materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material:	VCT
Base material:	Rubber
Wall material:	Block / Sheetrock
Wall Finish:	Paint
Ceiling material:	Acoustical Tile
Ceiling height:	8'-0" minimum
Hardware:	ADA compliant - Lockable
Lighting	Standard
Fire extinguisher & suppression	Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

Reading Support

Quantity: 1

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Proposed SF: 150 to 200 SF

Space Design Concept

The secretarial work area will accommodate work space for one secretaries and include casework that will be lockable. A fixed secure closet for confidential materials and supplies with shelves and coat hooks.

Program Activities

Provide administrative support to the guidance department.

Loose Furnishings

Reception Desk with chair
Computer Workstation with chair.
Work Tables
File cabinets 2 Minimum

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	yes
Display and book shelves	yes
Upper storage cabinet	yes – minimum 15 linear feet
Fixed cabinets and accessible work surfaces	yes – minimum 15 feet.
Designated area for Printer	yes

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Fax Machine
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Phone with all-call capabilities

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data (2 each)
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Waiting Area

Quantity: 1 (To be located in the School Counseling Suite)

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Proposed SF: 100 to 150 SF

Space Design Concept

The waiting area will accommodate seating for 5 to 10 individuals with a combination of individual seating and tables and chair settings. The waiting area will be part of the common space which will include areas for free standing bookcases, file cabinets and a student form cabinet. This space should be shared with the waiting area for the nurses clinic.

Program Activities

Waiting area and document dissemination.

Loose Furnishings

Tables with chairs, rectangular and round.
Individual chairs
Lockable file cabinets – 4 drawers (4 units)
Work Tables

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – Several with a minimum of 30 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	yes
Display and book shelves	yes – 50 linear feet of shelving
Forms storage cabinet with cubbies	yes – lockable with 36 cubbies
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting Multi-Level
HVAC systems including Air Conditioning
Multiple outlets

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Counseling/Social Worker/Psychologist Office

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Quantity: 3 (To be located in the School Counseling Suite)

Proposed SF: 150 to 175 SF

Space Design Concept

The space should be designed to accommodate typical private office equipment and a small conference table for up to four individuals. All office should have exterior windows.

Program Activities

Individual counseling

Loose Furnishing

Shelves	yes
Secure storage cabinet	yes – 2 required
Comfortable student seating	yes

Fixed Equipment

Acoustical treatment	yes
Marker/white board	yes
Tack board & display boards	yes
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	yes
Tall wardrobe and storage cabinet	yes – lockable
Fixed cabinets and accessible work surfaces	no

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Counseling Storage/Document storage

Quantity: 1

Proposed SF: 200 to 250 SF

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Space Design Concept

There is currently limited storage for the counseling department; items such as supplies and required records are stored throughout the current space with little organization. Storage area must accommodate paper supplies, instructional supplies, testing materials (PSAT, SAT, ACT, Developmental Guidance materials etc.), SIT files, 504 files, withdrawn student files, etc.

Program Activities

Secure, fireproof area for records storage

Loose Furnishings

Work Table
Lateral and vertical file cabinets
Storage shelving

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	no
Projection screen/surfaces	no
Flag Bracket & Flag	no
Book shelves	yes
Storage cabinet	yes – Fireproof
Fixed cabinets and accessible work surfaces	yes – 5 Linear feet

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	no		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Student Support Services Conference/Testing Room

Quantity: 1 (To be located in the School Counseling Suite)

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Proposed SF: 150 to 200 SF

Space Design Concept

The space should be designed to accommodate a conference table for up to twelve individuals.

Program Activities

Small group instruction and meetings

Fixed Equipment

Shelves	yes
Secure storage cabinet	yes

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	yes
Display and book shelves	yes
Lower storage cabinet	yes – lockable
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Interactive	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Nurse / Health Clinic

Quantity: 1
Proposed SF: 500 to 700 SF Each

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Space Design Concept

The Clinic should be located close to the main office and counseling suite so it is easily accessible to all students. The clinic will include a waiting area, semi-private cubicles with a cot for students, a handicapped accessible toilet, storage and an exam room.

Program Activities

Treatment of sick students.

Loose Furnishings

Computer Workstation with chair
Chairs for patients
Cots
Work Tables
Nurse's Desk and Chair
Lateral file cabinet

Fixed Equipment

Acoustical treatment	yes
Marker/white board	no
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Book shelves	yes
Tall wardrobe and storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes
Sink in the main clinic space	yes

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Operable windows

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Nurse / Exam Room

Quantity: 1
Proposed SF: 100 to 150 SF

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Space Design Concept

The exam room will be accessed from the clinic and will serve as a private exam room for students/patients.

Program Activities

Treatment of sick students

Loose Furnishings

Computer Workstation with chair

Exam Table

Lateral file cabinet

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Book shelves	yes
Secure storage cabinet	yes – lockable for storage of medicinal drugs
Fixed cabinets and accessible work surfaces	yes
Fixed cabinets with sink	yes

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning

Operable windows

Handicap bathroom

Sink

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes –
Integrated public address system	yes

Waiting Area

Quantity: 1 (To be located in the Nurses Suite)

Proposed SF: 100 to 150 SF

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Space Design Concept

The waiting area will accommodate seating for 5 to 10 individuals with a combination of individual seating and tables and chair settings. The waiting area will be part of the common space which will include areas for free standing bookcases, file cabinets and a student form cabinet. This space should be shared with the waiting area for the Counseling Suite.

Program Activities

Waiting area and document dissemination.

Loose Furnishings

Tables with chairs, rectangular and round.
Individual chairs
Lockable file cabinets – 4 drawers (4 units)
Work Tables

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – Several with a minimum of 30 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	yes
Display and book shelves	yes – 50 linear feet of shelving
Forms storage cabinet with cubbies	yes – lockable with 36 cubbies
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting Multi-Level
HVAC systems including Air Conditioning
Multiple outlets

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Nurse Storage/Document storage

Quantity: 1
Proposed SF: 100 to 150 SF

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Space Design Concept

There is currently no storage for the nurses; items such as supplies and required records are stored throughout the current small nurses area. Storage area must accommodate nursing supplies, testing equipment, and required records as prescribed state law.

Program Activities

Secure, fireproof area for records storage

Loose Furnishings

Work Table
Lateral and vertical file cabinets
Storage shelving

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	no
Projection screen/surfaces	no
Flag Bracket & Flag	no
Book shelves	yes
Storage cabinet	yes – Fireproof
Fixed cabinets and accessible work surfaces	yes – 5 Linear feet

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	no		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Secure / Lockable storage cabinets for medicine

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Educational Program Specifications – Health Education

Program Objectives

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The Health Program at Wheeler High School is designed to support and guide students' personal and academic achievement through the development of skills needed to live a healthy and balanced lifestyle. The curriculum, which is provided to students in grades 9 & 11, helps students to make plans and take actions that lead to a healthy and balanced life for themselves and the world around them.

Program Goals

Instruction in Health involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Health program include the following:

- A. Demonstrate the ability to practice health-enhancing behaviors that will contribute to the establishment of a healthy lifestyle;
- B. Development of strategies to avoid risk-taking behavior that may lead to their premature death or disability;
- C. Demonstrate an understanding of the relationship between health and the ability to live, learn, play, and work together;
- D. Demonstrate the behaviors that will enable students to become productive citizens who value and respect themselves, others, and the environment.

Program Courses

Health education is for students in grades 7 - 9 & 11. Students need to earn 1.0 credit in Health in order to graduate.

Program Activities to be Accommodated

Activities to be housed include large and small group instruction and class work. Students will discuss, read, write, word process, present, dramatize, and conduct research, applying skills and content learned through the utilization of material available in the classroom, as well as through the technological resources of voice, video, and print media. The Health classroom must be large enough to accommodate students working in small and large groups. Space must allow for teacher supervision of small groups and acoustics must be appropriate to control the noise level. All students are also required to meet individually with teachers in conference; therefore, appropriate quiet space should be provided. The Health classroom should function as a general classroom with full audiovisual/technology capabilities supported with the necessary electrical and network infrastructure. Natural light, multi-level lighting, and individualized environmental control should be provided in each space.

Space Occupancy and Design Criteria

The Health classroom includes the students and Health teachers. Depending on the course, a special education teacher and/or paraprofessional may share space for the instruction of small groups or individuals within the regular classroom. The following is a partial list of design elements that should be incorporated into all instructional spaces:

- The classroom configuration should maximize flexibility and interaction within and among the instructional areas for development of teaching teams and student learning.
- Each classroom should have the capability for a large number of computers.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas, which should be connected to an audio-visual system and a computer.
- Ceiling height and windows should maximize natural light and accommodate daylight.
- Sidelites must be provided adjacent to all classroom doors.

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- Cabinets and casework appropriate to the instructional classroom function should be provided. General classrooms should be provided with a minimum of 12 linear feet of casework, while specialty spaces should be designed to accommodate the program requirements.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Whiteboards and Bulletin Boards should be provided in each instructional space.

Current Space Limitations:

Lack of storage space and appropriate workroom. There is only one Health Classroom for High School students, there is no designated health space for Middle School students. The space is separated from the Physical Education areas and should be close in proximity.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility or building new to meet the program objectives established for Wheeler High School/Middle School. The classroom should be designed to provide the department flexibility in the assignment of rooms.

Design Concept:

Program Requirements

The Health Department space requirements will include classrooms. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching styles and disciplines. All furniture will be evaluated for life expectancy and all furniture and/or equipment that do not meet the State DOE requirements for "renovate as new" will be replaced. The following pages identify specific requirements for each space.

Health Classrooms

Quantity: 1 (Shared Middle School & High School)

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Proposed SF: 700 to 750 SF Each

Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space should function as an office for the teacher and study hall for students.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Modular rectangular tables with chairs – 20 each	
Circular tables for small groups with chairs	
Mobile computer stations	no – wireless computing throughout building
Teacher Desk and Chair	
Lateral/vertical file cabinet	yes – 2 required

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 2 at 12 linear feet
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	yes
Flag Bracket & Flag	yes
Display and book shelves	yes – along one wall / will be the department storage space
Tall wardrobe and storage cabinet	yes – along one wall / will be the department storage space
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Tile		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
 HVAC systems including Air Conditioning
 Natural and indirect/direct Lighting
 Operable windows

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Interactive White Board	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Educational Program Specifications – Physical Education

Program Objectives

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The Physical Education program is an integral part of the total educational structure of the North Stonington Public Schools. Taken in conjunction with the Health program, it provides the most significant contributions toward the total well-being of each child. The overall goal of the program is to offer progressive, sequential instruction which provides each student with sufficient physical activity to maintain an optimal level of fitness and develop acceptable social, emotional, and physical traits. The Physical Education department is currently separated from the Health department based upon layout and is in a separate building.

Program Goals

Instruction in the Physical Education Department involves the 21st Century Learning Expectations of writing effectively, reading effectively, speaking effectively, problem-solving effectively, and thinking critically. The goals of the Physical Education program include the following:

- A. Development of a student's positive attitude toward his/her personal involvement in physical activities;
- B. Development of an understanding of and appreciation for the nature of rules, skills, and strategies as they relate to physical education activities at the appropriate grade levels;
- C. Provide opportunities for students to develop a wholesome self-concept and an acceptable perception of others;
- D. Development of an interest and a desire to participate in life-long recreational sports;
- E. Development of healthy attitudes concerning winning, losing, and fair play;
- F. Development of the ability to identify options available in making personal decisions.

Program Courses

Physical Education is required for all students each year from grades 6 - 12. Students need to earn 2.0 credits in Physical Education in order to graduate.

Program Activities to be Accommodated

The facilities will accommodate physical education and athletic activities for the entire student population. The facilities required to achieve the department's goal for physical education/health and athletics are identified below.

- A. Main gymnasium with seating for 500 (2 Teaching Stations)
- B. Second Gymnasium (2 Teaching Stations)
- C. Fitness center
- D. Storage for all equipment (currently there is a lack of storage and showers are being used for storage)
- E. Separate boys' and girls' locker rooms with toilet and shower facilities
- F. Team locker areas for sport teams and visiting team use (Middle – High School)
- G. Athletic Director's Office
- H. Office, lockers, toilet, and shower facilities for the PE Staff
- I. Coaches' Offices
- J. Outdoor Equipment Storage
- K. Concession with Storage
- L. Ticket Booth

Space Occupancy and Design Criteria

The individuals using the space include the students, teachers, volunteers, and the community. The following is a partial list of design elements that should be incorporated into the design of the PE spaces:

- A. The Gymnasiums should maximize flexibility and provide adequate seating for state-wide competitions. At a minimum, there should be enough seating in the gym for all students who attend Wheeler High School/Middle School.
- B. Access to technology should be provided through the instructional and office areas.
- C. Digital projection systems should be utilized for visual display, including scoreboards.

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- D. Interactive whiteboards should be installed in all instructional areas.
- E. Ceiling height and windows should maximize natural light and accommodate daylight.
- F. Sidelites must be provided adjacent to all instructional classroom doors.
- G. Cabinets and casework must be provided in all instructional classrooms.
- H. Speaker systems should be incorporated into all instructional spaces.
- I. Whiteboards and Bulletin Boards should be provided in each instructional space.
- J. Adjustable multi-directional lighting.
- K. Video recording infrastructure must be installed in the gymnasiums for the live recording of events.
- L. Enhanced ventilation requirements
- M. Masonry, ceramic tile and similar finish products should be used in all locker and team facilities.
- N. Natural light should be provided in the gymnasiums.
- O. Provisions for the storage of equipment for all sports activities.
- P. All facilities should meet Title IX requirements.
- Q. The Athletic Training Room should include: sink, ice machine, white board, whirlpools, and storage lockers.
- R. Mechanically-operated curtain
- S. The weight room should consist of: cardiovascular and weight equipment to accommodate 20 students.
- T. The count of all existing athletic fields and courts should be maintained with the addition of a new practice field.

Special Considerations

The gymnasium should have a generator which would allow the building to be used as an emergency shelter. Therefore, the facility should be designed with the emergency shelter in mind.

Existing Conditions

The most significant program deficiency in the Physical Education Department is the lack of gym and locker-room space. There is no distinguishing the Middle School from High School Spaces. With one locker room designated for both boys and girls, the students from grade 6 – 12 are all in the same space at the same time. This is even exasperated after school when the spaces are inundated with students changing for athletics or when we have home basketball games. We could have up to four different teams and three sets of referees accessing the spaces.

With only two teaching stations in the gym, the hallway has to be utilized certain periods when it rains. The hallway currently contains the climbing wall.

Other program shortfalls are the size of fitness center and the lack of storage for athletic and physical education equipment. The main gymnasium is not large enough to have bleacher seating for all students' grades 6 – 12 which limits the possibility of hosting tournament contests. With the bleachers extended there is a safety concern for the athletes as there is inadequate space around the court. This condition also impact accessibility for spectators during sports events. The bleachers are not ADA compliant.

Current Space Limitations:

Lack of instructional space for health near the gym, equipment storage space, inadequate office and conference rooms.

Proposed Program and Concept Plan

The program developed for the Physical Education program is based on meeting the curriculum need of Wheeler High School/Middle School. Right sizing the program areas, addressing ADA/OCR and Title IX; and resolving the natural light environmental issues have been the programming priorities. In developing the plan a key component was the introduction of a new gymnasium space that addressed all the safety concerns identified under

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the existing conditions, by increasing the width and providing appropriate egress options in the event of an emergency. Also, the addition of additional locker room space.

Design Concept:

The design approach reorganizes the existing program to meet the following priorities:

1. Equality in the size of the facilities and amenities available to both the boys and the girls.
2. Introduction of natural light and HVAC systems that meet or exceed ASHRAE standards and provide a healthy environment for the competitive sprite.
3. A facility that is welcoming and enhances student performance allowing them to excel by developing a healthy body and mind.
4. A facility that serves the students and the community at large.

Program Requirements

The key spaces requirements of the Physical Education Department, and the community at large, is to include two gymnasiums, a larger fitness center, health classrooms, storage rooms, utility room, locker rooms and offices for the athletic director and teachers. The inclusion of technology is an imperative.

Gymnasium

Quantity: 2

Proposed SF: 7,500 to 10,000 SF

Space Design Concept

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The Main Gymnasium should be designed to accommodate a full size courts for basketball and volleyball; and seating for 500 Spectators. The second gym should be smaller and accommodate less spectators. Both Gyms will be designed with an integrated approach to technology. Each space will function as a physical education instructional area for 2 classes.

Program Activities

Primarily PE activities and should support a number of teaching styles, including lectures, small group and individual instruction. Appropriate storage for equipment for each gym.

Loose Furnishings

Physical Ed Equipment

Fixed Equipment

Acoustical treatment	yes – Acoustical Deck and panels
Marker/white board (Multiple)	no
Tack board & display boards	no
Projection screen/surfaces	yes – Retractable
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	no

Finishes

Floor material:	Wood resilient sports flooring	
Base material:	Wood	
Wall material:	Block / Sheetrock	finish: Paint
Wall material:	Wall padding	
Ceiling material:	Open ceiling painted with acoustical deck	
Hardware:	ADA compliant	
Lighting	Multi level direct/indirect	
Windows	Maximize natural light – Avoid potential for glare	
Fire extinguisher & suppression	per code	

Special Requirements

- Specialty lighting
- Retractable Clear Glass basketball backboards
- HVAC systems including Air Conditioning
- Mechanically operated divider curtains or rigid folding partitions
- Accommodation for baseball cages
- Protection for all equipment
- Sloped roof deck at 1/2" per foot minimum
- Provision for floor scansion for volleyball and other sports.
- Access to power and data in the floor
- Electronic scoreboards
- Display of banners
- Retractable bleachers to sit 500 people in larger gym

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Locker Rooms

Quantity: 5 (divided equally between the High School and Middle School – One locker room designated for officials/staff)
Proposed SF: 1,000 to 1,500 SF Each

Space Design Concept

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The locker rooms should be designed with an integrated approach to technology. The space will function as a changing area for students, include toilets and shower facilities and be adjacent to the team rooms. The PE teacher offices will open on the locker rooms. Each locker-room should contain restroom facilities as prescribed by code.

Program Activities

Student changing and preparatory area for PE activities
Team athletics

Loose Furnishings

Shower curtains

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet in team rooms
Tack board & display boards	no
Projection screen/surfaces	no
Large Lockers	yes – 250 lockable (each locker room)
Fixed counters and accessible work surfaces	yes
Mirrors	yes

Finishes

Floor material:	Polished Concrete		
Base material:	Ceramic Tile		
Wall material:	Block / Tile	finish:	Paint/Tile
Ceiling material:	Open ceiling		
Hardware:	ADA compliant		
Lighting	Standard		
Windows	Clearstory Semitransparent - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Interior windows for teacher office sightlines
Vandal proof furnishings
Restrooms

Technology

Power outlet - walls	yes – as appropriate
Media projection system	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Coaches/PE Teachers Offices

Quantity: 2 (One in each of the four main locker rooms)
Proposed SF: 100 to 150 SF Each

Space Design Concept

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Program Activities

Primary use will be cardiovascular activities and will also support a number of teaching styles, including lectures and dance.

Loose Furnishings

Aerobic activities equipment

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 12 linear feet
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	yes
Flag Bracket & Flag	yes
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	no
Mirrors on all walls	

Finishes

Floor material:	Rubber		
Base material:	Wood		
Wall material:	Block / Sheetrock	finish:	Paint/Mirrors
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Water fountain

Technology

Power outlet - floor and walls	yes – as appropriate based on equipment location design
Media projection system	yes
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Athletic Directors Office

Quantity: 1
Proposed SF: 150 to 200 SF

Space Design Concept

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The space should be designed to accommodate an office for the Athletic Director(s) with work/planning area, conference area.

Program Activities

Planning and preparation office.

Loose Furnishings

Desks and Chair
Computer station
Work table and Chair
Lateral/vertical file cabinet

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	yes
Display and book shelves	yes – 8 linear feet
Tall wardrobe and storage cabinet	yes – lockable 6 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

PE/Athletic Storage

Quantity: 2
Proposed SF: 250 to 500 SF

Space Design Concept

The storage should be designed to accommodate department, athletic and community specific equipment.

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Program Activities

Storage of PE, athletic ad community equipment

Fixed Equipment

Shelves yes – 12 inch deep

Finishes

Floor material:	Concrete
Base material:	Rubber
Wall material:	Block / Sheetrock
Wall Finish:	Paint
Ceiling material:	Acoustical Tile
Ceiling height:	8'-0" minimum
Hardware:	ADA compliant - Lockable
Lighting	Standard
Fire extinguisher & suppression	Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls	yes
Security	yes – per the districts security plan

Utility Room

Quantity: 1

Proposed SF: 50 to 100 SF

Space Design Concept

The space should be designed to accommodate laundry equipment and Ice Machine.

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Program Activities

Laundry for uniforms
Ice Machine

Loose Equipment

Washer & Dryer
Ice Machine

Fixed Equipment

Shelves yes – 12 inch deep

Finishes

Floor material:	VCT
Base material:	Rubber
Wall material:	Block / Sheetrock
Wall Finish:	Paint
Ceiling material:	Acoustical Tile
Ceiling height:	8'-0" minimum
Hardware:	ADA compliant - Lockable
Lighting	Standard
Fire extinguisher & suppression	Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

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Educational Program Specifications – Cafeteria

Program Objectives

The food service program is a vital part of today's educational service and is an integral part of the overall educational plan for a school facility program. Nutrition requirements based on a healthy diet, sufficient time for serving, and eating arrangements must be given a high priority as they contribute to the health and welfare of all students and staff. The Cafeteria should be designed as a comfortable and multifunctional space as it typically serves as a banquet facility, school dance venue, meeting room, and home to other after school and community activities. The dining area should accommodate a minimum of 140 students at a time and provide designated areas for senior seating, vending machines, small gathering areas, and temporary/portable food stations for snacks, salad etc. Additionally, the space should provide the opportunity for presentations such as lecture, music, and dances. The cafeteria should also function as an area where student work and achievements are displayed.

The kitchen/food preparation area that will accommodate hot and cold meal serving lines is imperative. A self-service line and a snack line with a steam table should be provided. A separate washing/disposal area for elimination of waste and cleaning utensils should be maintained. This area should be readily accessible to the serving area for quick redistribution of utensils. There should be an access area for quick and convenient disposal of solid waste products and paper trash without distraction to diners or school traffic.

Program Activities to be Accommodated

- Food service and seating for up to 140 students, approximately 33% of the school's population at one time with multiple furniture arrangements
- Kitchen area large enough to service the needs associated with the preparation of the food
- Facilities for dishwashing, garbage disposal area, freezers, coolers, food services staff office, and planning areas
- Toilets, lockers, and other support spaces associated with the kitchen

Space Occupancy and Design Criteria

The space includes the students, teachers, administrative and food service staff. The following is a partial list of design elements that should be incorporated into the studio spaces:

- A. The Cafeteria configuration should maximize flexibility and provide for activities such as lectures, school dances, social events, and art displays.
- B. Digital projection systems should be utilized for visual display in designated areas.
- C. Community access after school hours should be provided.
- D. Ceiling height and windows should maximize natural light and accommodate daylight.
- E. Windows in the corridors should be provided and appropriately sized corridors should be provided to the area in and out of the cafeteria.
- F. Booth, high-top, and other seating arrangements should be planned for maximum flexibility.
- G. Special consideration should be given for sound transmission and acoustics.
- H. Speaker systems should be incorporated into all cafeteria seating areas.
- I. Storage should be provided for the tables and chairs.
- J. Adjustable multi-directional lighting
- K. A courtyard for exterior dining should be provided.
- L. Student display cases for two- and three-dimensional art work should be provided.
- M. Enhanced ventilation requirements

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Existing Conditions

The existing cafeteria lacks appropriate acoustics and the ability to effectively function as a multi-use space. It also has a maximum capacity of approximately 150 students which requires 4 separate lunch waves. Communications, data and video technology is limited.

Current Space Limitations:

Lack of seating for one lunch wave for each school and storage space

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility to meet the program objectives established for Wheeler High School/Middle School. The cafeteria seating space needs to be expanded. Additionally, technology will be introduced throughout the space and areas with multi-use capabilities in mind.

Design Concept:

Program Requirements

The Cafeteria space requirements include the seating area to incorporate 240 students at one time, storage rooms, and kitchen/support spaces.

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Cafeteria

Quantity: 1
Proposed SF: 2,500 to 3,000 SF (enough to hold 140 students at a time)

Space Design Concept

A multi-functional space that is used to serve students lunch and provides options for large and small assemblies

Program Activities

Student dining area and assemblies

Loose Furnishings

Tables with attached seating
Vending machines

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes
Projection screen/surfaces	yes - overhead
Display and book shelves	no

Finishes

Floor material:	VCT / VET		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical and Open ceiling		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
Drinking Fountains
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Power requirements for portable hot and cold food serving units

Technology

Power outlet - floor and walls	yes - as appropriate
Media projection system	yes
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address system	yes

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Kitchen & Serving Line

Quantity: 1
 Proposed SF: 1,500 to 2,000 SF
Space Design Concept
 An efficient commercial kitchen with appropriate support spaces

Program Activities
 Preparation and serving meals, primarily lunch.

Loose Furnishings
 Food preparation and serving utensils equipment
 Tables
 Portable carts
 Portable serving stations
 Portable hot and cold food storage units

Acoustical treatment	Acoustical Tile
Marker/white board (Multiple)	yes – Limited to the offices and planning areas
Tack board & display boards	yes
Projection screen/surfaces	no
Display and book shelves	no

Finishes			
Floor material:	Quarry Tile		
Base material:	Tile		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical and Open ceiling		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements
 Specialty lighting
 Drinking Fountains
 Hand Sinks
 Food preparation equipment
 HVAC systems including Air Conditioning
 Natural and indirect/direct Lighting
 Power requirements for portable hot and cold food serving units

Technology	
Power outlet - walls	yes – as appropriate
Media projection system	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Educational Program Specifications – Media Center

Program Objectives

The mission of the library is to ensure that students develop both an enjoyment of reading and the information gathering skills that enable them to be independent, effective, responsible, critical, and creative users of ideas and information. The Shaw Media Center is the school's center for information and inquiry for students and staff. The center provides the services, instruction, materials, equipment, and personnel to assist the faculty in developing an appropriate and effective educational program. Media Centers of today are designed to be flexible and have electronic adaptability; ready for technologies as traditional methods are changing almost daily in the area of instruction.

The media center also coordinates the use and maintenance of instructional equipment. The library will consist of student seating areas with tables and study carrels, technology areas for student access to computers and AV equipment, classroom areas for instruction, shelving and storage for materials, a circulation area, small group meeting area, production room, library staff offices and workroom, storage room for equipment, and a professional library area for teachers.

The district media workroom will consist of a staff and student production area, office/work room for the media director, quiet work/meeting room, secured storage areas, and areas for copying and laminating.

Program Activities to be Accommodated

The library will house individual and class research using/viewing print, audio-visual, non-print, and computer resources; student instruction and activities in classroom areas; student pleasure reading; circulation of materials; student copying and compilation of research; library staff acquisition and processing of materials; storage of materials and equipment; and professional reading and research for teachers.

The Media Center currently has a computer lab and a computer room integrated into its operation. This lab is used for direct instruction by the Library Media Specialist, the Video Production class, and the other classes who sign up for its use. The Media Center environment currently provides wireless access to the Internet, utilized by district equipment and by approved staff and student devices.

Space Occupancy and Design Criteria

The library will have seating for up to 50 students including space for a minimum of 6 computers in the computer room, office/work space for the library media specialists, copy machine, video production studio (unless moved – see below), secured storage, and the high school faculty room.

The following is a partial list of design elements that should be incorporated into the studio spaces:

- A. The Media Center configuration should maximize flexibility and provide lecture as well as general seating and computer workstation space.
- B. Access to technology should be provided through the Media Center.
- C. Digital projection systems should be utilized for visual display.
- D. Interactive whiteboards should be installed in designated areas.
- E. Ceiling height and windows should maximize natural light and accommodate daylight.
- F. Sidelites must be provided adjacent to all doors.
- G. Cabinets and casework appropriate to the media center functions should be provided.
- H. Special consideration should be given for sound transmission.
- I. Speaker systems should be incorporated into designated instructional areas.
- J. Whiteboards, Bulletin Boards, and projection screens will be provided at each designated instructional areas.
- K. Dedicated storage should be provided.

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- L. Adjustable multi-directional lighting
- M. A reading courtyard for students
- N. Student project display area
- O. The library workroom should be located near the circulation desk and should have a sink. Maximum sight lines and visibility throughout the library space for supervision are needed. The classrooms and small group spaces should be visible for supervision.
- P. Move the Video Production/Broadcast studio to the technology area of the school and create a quiet/work area with windows

Existing Conditions

The size of the existing Media Center meets the needs of our educational program, but the way in which the space is used could be redesigned to meet the needs of our school.

Current Space Limitations:

Quiet work/meeting spaces

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility to meet the program objectives established for Wheeler High School. The new Media Center has been supplemented with additional storage and will be redesigned to address the issues of security. The plan proposes a reading garden/courtyard adjacent to the media center.

Design Concept:

Program Requirements

Student seating areas with tables and study carrels, technology areas for student access to computers and AV equipment, classroom areas for instruction, shelving and storage for materials, a circulation area, small group meeting area, production room, library staff offices and workroom, storage room for equipment, and a professional library area for teachers.

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Media Center

Quantity: 1

Proposed SF: 4,000 to 4,500 SF (existing space)

Space Design Concept

The space should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations.

Program Activities

The library will have seating for up to 50 students, including space for a minimum of 30 computers, a small group meeting area, comfortable seating for students, offices for the library media specialists; library assistants; and professional library to seat a minimum of 12 at tables.

Loose Furnishings

Tables with chairs
Circular tables for small groups with chairs
Mobile computer stations
Comfortable seating for students
Shelving

Acoustical treatment	yes
Marker/white board (Multiple)	yes
Tack board & display boards	yes
Projection screen/surfaces	yes
Display and book shelves	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Open ceiling		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes - as appropriate
Media projection system	yes
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address system	yes

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Teacher Work Room

Quantity: 1
Proposed SF: 300 to 350 SF

Space Design Concept

The workroom should be designed to accommodate the work/planning area, copier, limited equipment and secure media storage.

Program Activities

Teacher planning and preparation area.

Loose Furnishings

Desks and Chair	yes – rooms for 5 teachers
Computer stations	yes – 5
Work table and Chair	yes – room for 5 teachers
Lateral/vertical file cabinet	no

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	yes
Display and book shelves	yes – 8 linear feet
Tall wardrobe and storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows
Copier and various printers

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Media Center Conference Room

Quantity: 1
Proposed SF: 250 to 300 SF

Space Design Concept

The space should be designed to accommodate a small conference table for up to twelve individuals.

Program Activities

Small group instruction and meetings

Fixed Equipment

Shelves	yes
Secure storage cabinet	yes

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	yes
Flag Bracket & Flag	yes
Display and book shelves	yes
Lower storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Smart boards	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Educational Program Specifications – Administration

Program Objectives

The administrative offices will be designed to provide support the efficient operation of the administrative and secretarial staff. The office suite should be able to house the school principal, associate principal, special services director and two support/secretarial staff. The school nurse/clinic and the counseling suite will be located adjacent to the office space. The administrative offices should be located at the main school entrance and provide control for all visitors and students entering and leaving the school.

Program Activities to be Accommodated

The administrative facilities will accommodate offices, and other administrative support spaces including the following:

- Offices
- Conference Room
- Work Room
- Teachers' lounge
- General & student record storage
- Secretarial stations
- Waiting Area
- Storage Space
- Handicapped Accessible Toilet

Space Occupancy and Design Criteria

The individual's utilization the space include the administrators, students and teacher, volunteers and the community. The following is a partial list of design elements that should be incorporated into the design of the spaces:

- The main office should control all access from the main entrance to the school.
- Access to technology should be provided through the conference and office areas.
- Digital projection systems should be utilized for visual display in the main conference room.
- Interactive whiteboards should be installed in the main conference room.
- Ceiling height and windows should maximize natural light and accommodate day-lighting.
- Sidelites must be provided adjacent to all doors.
- Cabinets and casework must be provided in all offices and at the secretarial workstations.
- All spaces will be fully accessible.
- Waiting areas should be provided.
- Individualized temperature control for all spaces.
- Communication and video security control to all spaces and egress points.

Existing Conditions:

The size of the space is adequate, but the current configuration does not meet the needs of the school. Not having a direct entrance into the Main Office from the outside does pose a security risk. A separate entrance into the Main Office for visitors is required. The Nurse's Suite is connected to the Main Office and uses the same entrance. With no spate waiting area, it causes privacy and health concerns. There is one bathroom shared by the Nurses Suite and the Main Office which poses privacy concerns.

Current Space Limitations:

Lack of storage space, visitor management and distinguished spaces for the Nurse Suite

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Proposed Program and Concept Plan

The program developed for the administrative offices focus on reusing the existing space and meeting program deficiencies by addressing space layout and secure casework for storage. Natural light and environmental issues will be priorities.

The administrative offices are located at the entrance to the school and provide an excellent point of control.

Design Concept:

Program Requirements

Separate entrance fro visitors and more privacy between the Nurses Suite and the Main Office.

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Principal's Office

Quantity: 1
Proposed SF: 150 to 250 SF

Space Design Concept

The office should be designed for easy access and include adequate space for a small conference/meeting area. A coat and storage closet should be provided within the space.

Program Activities

Administrative office and small meeting groups

Loose Furnishings

Conference table and chairs	
Computer station	No – Wireless capabilities
Desk and Chair	
Lateral file cabinet	
Book Shelves	

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 6 linear feet
Tack board & display boards	yes – 6 linear feet
Projection screen/surfaces	no
Display and book shelves	no – Loose Furnishing
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Associate Principals Office

Quantity: 1
Proposed SF: 150 to 175 SF

Space Design Concept

The office should be designed to include adequate space for a small conference/meeting area. A coat and storage closet should be provided within the space.

Program Activities

Administrative office and small meeting groups

Loose Furnishings

Conference table and chairs	
Computer stations	no - wireless
Desk and Chair	
Lateral file cabinet	
Book Shelves	

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes - 1 at 6 linear feet
Tack board & display boards	yes - 6 linear feet
Projection screen/surfaces	no
Display and book shelves	no - Loose Furnishing
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes - as appropriate
Media projection system	no
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address system	yes

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Special Services Office

Quantity: 1
Proposed SF: 150 to 175 SF

Space Design Concept

The office should be designed to include adequate space for a small conference/meeting area. A coat and storage closet should be provided within the space

Program Activities

Administrative office and small meeting groups

Loose Furnishings

Conference table and chairs	
Computer station	no - wireless
Desk and Chair	
Lateral file cabinet	
Book Shelves	

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes - 1 at 6 linear feet
Tack board & display boards	yes - 6 linear feet
Projection screen/surfaces	no
Display and book shelves	no - Loose Furnishing
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical		
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

Power outlet - floor and walls	yes - as appropriate
Media projection system	no
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address system	yes

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In School Suspension

Quantity: 1
Proposed SF: 150 to 200 SF

Space Design Concept

The In-School Suspension space should be designed to accommodate 5 to 6 students, in a small classroom environment with minimal privileges individual work area and a work/planning area.

Program Activities

Small group instruction

Loose Furnishings

Desks and Chair	
Computer stations	
Teachers Desk and Chair	
Lateral/vertical file cabinet	no

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 8 linear feet
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	VCT / VET		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	yes		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Main Office/Principals' Conference Room

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Quantity: 1
Proposed SF: 200 to 300 SF

Space Design Concept

The conference rooms should seat 10 to 16 individuals in a comfortable setting. The large conference room should include voice, video, and data and digital projection.

Program Activities

Meeting space and small group presentation

Loose Furnishings

Conference table for small groups with chairs 14 to 16 in the large conference room.

Fixed Equipment

Acoustical treatment	yes
Marker/white board	yes – 1 at 8 linear feet
Tack board & display boards	yes – 2 at 4 linear feet
Projection screen/surfaces	yes
Flag Bracket & Flag	yes
Display and book shelves	yes
Storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting Multi-Level
HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	yes
Interactive Whiteboard	yes
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	yes
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Main Office Waiting Area

Quantity: 2
Proposed SF: 100 to 200 SF Each

Space Design Concept

There will be one designated waiting area for the Main Office. It will be located adjacent to the reception/secretarial area with seating for 6 to 8. There will be a much smaller waiting area inside the Main Office Suite that is isolated and private. This should accommodate up to 4 people.

Program Activities

Waiting area for students and visitors

Loose Furnishings

Comfortable seating
Small tables

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	no

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Display stand for school related information.

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – data ports
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Secretarial Area

Quantity: 1
Proposed SF: 300 to 500 SF (Room for two secretaries)

Space Design Concept

The secretarial stations will be designed to facilitate efficient operations and planning functions of the school. The space should be open and inviting to all visitors, yet also provide privacy of records. Secure casework must be provided for storage of records and supplies. There should be a counter to designate the waiting area from the secretarial area.

Program Activities

Support administrative staff and school operations.

Loose Furnishings

Computer Workstations with chair
Work Tables
Desk and Chair
Lateral file cabinet
Visitor Chair

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	yes
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes - lockable

Finishes

Floor material:	Tile		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty lighting Task lighting
HVAC systems including Air Conditioning
Natural Lighting
Operable windows

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Main Office General Storage

Quantity: 1
Proposed SF: 100 to 250 SF Each

Space Design Concept

Storage of main office supplies in a secure fire rated room

Program Activities

Student record storage

Loose Furnishings

Work Table
File cabinets

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	no
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Sink and counter space

Technology

Power outlet - floor and walls	yes - as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes - phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes - per the district's technology plan
Wireless & Hard wired Network	yes - per the district's technology plan
Integrated public address system	yes

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Main Office Records Storage

Quantity: 1
Proposed SF: 200 to 300 SF Each

Space Design Concept

Storage of records and in a secure fire rated room

Program Activities

Student record storage

Loose Furnishings

Work Table
File cabinets

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	no
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	VCT		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning
Sink and counter space

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Teachers' Lounge

Quantity: 1 (If it is centrally located we would only need one space)
Proposed SF: 300 to 400 SF

Space Design Concept

A space with comfortable seating that teachers can use in their free or lunch time for informal discussions with co-workers. The space can be adjacent to the work room and have faculty toilets nearby. There are currently two lounges, if the space is centrally located only one would be required.

Program Activities

Teachers' Lounge.

Loose Furnishings

Computer Workstation with chair
Circular table for small groups with chairs
Comfortable Chairs

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	yes
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Carpet		
Base material:	Rubber / Vinyl		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Multi level direct/indirect		
Windows	Operable with blinds - Maximize natural light		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

Educational Program Specifications – Facilities Management

Program Objectives

The physical plant and building systems infrastructure at Wheeler must meet the latest building, Fire and Life Safety codes adopted by the State of Connecticut. In addition the renovated WHS facility must meet and/or exceed the High Performance building standards adopted by the State, and achieve a LEED Silver or equivalent certification. Alternative energy systems should be introduced, as part of the program started by the town for energy efficiency and sustainable solutions, with the goal of making Wheeler High School an example of environmental stewardship.

Program Activities to be Accommodated

The facilities management department will be responsible for the maintenance of Wheeler High School/Middle School and will address the building systems and spaces identified below:

- Boiler Room (currently 3)
- Emergency Generator (currently none)
- Electrical Service and distribution
- Power Backup Systems
- Domestic Hot and Cold Water Systems
- Heating, Ventilation and Air Conditioning
- Fire Alarm Systems
- Sprinkler Systems
- Waste Water Systems
- Storm Drainage Systems
- Alternative Energy Systems
 - Co-Generation
 - Solar/ Photo-Voltaic
 - Geothermal
- Plant Maintenance / Custodial
- Building Receiving and Storage
- Equipment Storage
- Toilet Facilities
- Janitors Closets
- Maintenance Shop
- Custodial Lounge and Work room
- Custodial Locker Rooms
- Building and Grounds Office and Records Storage

Space Occupancy and Design Criteria

The individuals utilizing the facilities management and maintenance spaces include custodians and building engineers and contract staff, and school administration. The following is a partial list of design elements that will be incorporated into the design of the Building Systems:

- **Fire Protection Systems**
 - The existing service entrances are recommended to be retained and reconfigured for final special layout.
 - The system distribution is recommended to be reconfigured based on final special layout.
 - All sprinkler heads are recommended to be replaced.
 - Complete system is recommended to be recertified at project completion.
 - Stage protection to be modified to current requirements.

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- **Plumbing Systems**
 - Replace all existing domestic cold water mains and modify service entrance for new special layout.
- **Natural Gas**
 - Combine natural gas services of multiple boiler rooms for centralized network.
- **Sanitary Service**
 - Completely camera survey exiting sanitary network in conjunction with complete cleaning of all pipes.
 - Reconfigure pipes to accommodate new special layouts.
- **Storm System**
 - Completely camera survey existing storm network in conjunction with complete cleaning of all pipes to accommodate adding and connecting new risers.
 - All drains shall be replaced.
- **Domestic Hot Water**
 - Provide centralized domestic hot water production for facility.
 - Maintain pool area as separate high efficiency plant.
 - Replace all existing domestic hot water mains.
- **Heating**
 - Update heating system throughout
- **Ventilation**
 - Provide air conditioning in all spaces. New roof mounted units serving classrooms (1 per 8 classrooms).
 - All major spaces to receive new roof mounted air handling units with hot water coils.
 - Each individual space to be provided with variable air volume air conditioning. The building to be provided with high efficiency centralized airconditioning network. Central chiller preferred. Alternates systems to be evaluated.
 - Replace all exhaust fans.
 - Replace all existing exhaust ductwork.
 - Remove all unit ventilators in school.
 - Replace temperature control system throughout with electric/electronic.
- **Electrical Systems**
 - Provide new emergency generator for school (two).
 - Allow for replacing of all corridor lighting in and high school.
 - Update (increase) electrical service entrance at high school
 - Replace all existing electrical panels prior >91.
 - Allow for replacing of all lighting in school with energy efficiency lighting.
 - Modify existing telephone system for new layouts.
 - Update clocks to a central system.
 - Provide new fire alarm throughout facilities (expand existing network).
- **Security System**
 - Update a new security system based on video surveillance and a proximity card access and monitoring system
- **Technology Infrastructure**
 - Install an updated wired and wireless infrastructure throughout the facility
- Ceiling height and windows should maximize natural light and accommodate day-lighting.

Existing Conditions: The existing space for maintenance, toilets and circulation are adequate with a few modifications in the area of storage and work space.

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Current Space Limitations:

Lack of dispersed storage space throughout entire building

Proposed Program and Concept Plan

The program developed for the Building maintenance and support facilities is based on meeting the latest codes and the space requirements of the energy's systems that will be designed for Wheeler High School/Middle School. Addressing ADA/OCR and Title IX; and resolving the natural light environmental issues will be programming priorities. The proposed plan will effectively deal with the storage issues we are currently facing.

Design Concept:

The design approach reorganizes the existing program to meet the following priorities:

- Provide dispersed space for general storage, janitor's closet and mechanical equipment.
- All toilet facilities will be fully renovated and made accessible throughout the facility.

Program Requirements

The key spaces requirements of the Facilities Management office includes, space for the building MEP & FP Systems, Storage, Maintenance department space, building circulation and toilets.

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Facilities / Maintenance Offices & Workroom

Quantity: 1

Proposed SF: 200 to 300 SF

Space Design Concept

The maintenance office and work room space should be centrally located and have access to an exterior ramp. The space will function as a meeting room for the custodial staff and will house maintenance related equipment. The space will function as a changing area for staff, include toilets and shower facilities and be adjacent to the team rooms

Program Activities

Planning and support area for the maintenance staff.

Loose Furnishings

Rectangular art tables with chairs

Computer stations

Lateral and Vertical file cabinet

Workbench with Vise

Maintenance Tools

Stepladders

Extension ladder

Thirty foot man lift

Pallet jack

Desk Mover

Hand Truck

Floor Fans

Custodial carts

Flat cart

Vacuum Cleaners

Floor Machines

First Aid Kit

Sweepers

Acoustical treatment

Marker/white board (Multiple)

Tack board & display boards

Projection screen/surfaces

Book shelves

Storage cabinet

Fixed cabinets and accessible work surfaces

Sink

yes

yes – 1 at 12 linear feet

yes – minimum 10 linear feet

no

yes – 12 linear feet

yes – lockable 8 linear feet

yes

Finishes

Floor material:

Base material:

Wall material:

Ceiling material:

Hardware:

Lighting

Windows

Fire extinguisher & suppression

VCT / VET

Rubber / Vinyl

Block / Sheetrock

Acoustical ceiling

ADA compliant

Standard

Maximize natural light

per code

finish:

Paint

Special Requirements

Specialty lighting

Deep sinks, eyewash and body shower

HVAC systems including Air Conditioning

Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls

Media projection system

Voice, video and data ports

Security

Portable sound system

Technology equipment

Wireless & Hard wired Network

Integrated public address system

yes – as appropriate

no

yes – phone / intercom and data

yes

no

yes – per the district's technology plan

yes – per the district's technology plan

yes

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Maintenance/Custodial Locker Rooms

Quantity: 1
Proposed SF: 200 to 300 SF

Space Design Concept

The maintenance locker room will function as a changing area for custodial/maintenance staff and include toilets and shower facilities.

Program Activities

Changing space for the custodians. This space should be connected to the office/workroom space

Loose Furnishings

Lockers

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	no
Projection screen/surfaces	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	no

Finishes

Floor material:	Polished Concrete		
Base material:	Tile		
Wall material:	Block / Sheetrock	finish:	Epoxy Paint
Ceiling material:	Water resistant ceiling		
Hardware:	ADA compliant		
Lighting	Standard		
Windows	no		
Fire extinguisher & suppression	per code		

Special Requirements

HVAC systems including Air Conditioning

Technology

Power outlet - walls	yes – as appropriate
Media projection system	no
Voice, video and data ports	no
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Storage

Quantity: 3
Proposed SF: 150 to 500 SF Each

Space Design Concept

Storage rooms shall be provided throughout the school. The larger storage areas should be located near the custodial work room and the boiler room(s). Chemical and combustible material storage should be in appropriately rated and vented rooms and cabinets. Equipment that uses gasoline should be stored in rooms with direct access to the exterior and in fire rated rooms.

Program Activities

Storage of maintenance related supplies and equipment.

Loose Furnishings

Industrial Shelves
Chemical Storage Cabinets

Fixed Equipment

Acoustical treatment	yes – Provide sound isolation
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Storage cabinet	yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Concrete		
Base material:	N/A		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Sheetrock	height:	10'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard		
Windows	no		
Fire extinguisher & suppression	per code		

Special Requirements

Explosion proof fixtures
HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	no
Wireless & Hard wired Network	no
Integrated public address system	yes

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Shop

Quantity: 1
Proposed SF: 250 to 300 SF

Space Design Concept

The maintenance shop should have a workbench and small tools. Custodians/Maintenance will have access to the larger shop equipment in the technology education area.

Program Activities

Limited repair of fixtures and equipment

Loose Furnishings

Workbench
File cabinet
Computer access

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	yes – 1 at 4 linear feet
Tack board & display boards	yes – 1 at 4 linear feet
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes

Finishes

Floor material:	Concrete		
Base material:	N/A		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	Acoustical Tile	height:	8'-0" minimum
Hardware:	ADA compliant		
Lighting	Standard Utility Fixture		
Windows	yes		
Fire extinguisher & suppression	per code		

Special Requirements

Specialty directional lighting
HVAC systems including Air Conditioning

Technology

Power outlet - floor and walls	yes – as appropriate
Media projection system	no
Smart boards	no
Voice, video and data ports	yes – phone / intercom and data
Security	yes
Portable sound system	no
Technology equipment	yes – per the district's technology plan
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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Electrical Rooms

Quantity: 2 (one in each building)
Proposed SF: 400 to 650 SF

Space Design Concept

The Electrical room will house the electrical switch gear, distribution panels and other designated equipment for the operation of the school.

Program Activities

Electrical room for boiler plant operation.

Loose Furnishings

Safety equipment
First Aid Kit

Fixed Equipment

Acoustical treatment	yes
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet (post notices)
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	yes -Limited

Finishes

Floor material:	Concrete		
Base material:	None		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	None		
Hardware:	ADA compliant		
Lighting	Utility Standard		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

Ventilation of equipment per code

Technology

Power outlet - floor and walls	yes – as appropriate
Voice and data ports	yes – phone / intercom and data
Security	yes
Technology equipment	yes – related to the equipment in the room
Wireless & Hard wired Network	yes – Access should be available
Integrated public address system	yes

Loading Dock and Receiving

Quantity: 1
Proposed SF: 350 to 500 SF

Space Design Concept

Centralized delivery for food service and supply deliveries/share loading dock space; should be near the maintenance workroom, storage areas and food service areas.

Program Activities

Staging area for all deliveries

Loose Furnishings

Hand Dolly

Fixed Equipment

Acoustical treatment	no
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet (post notices)
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	no

Finishes

Floor material:	Concrete		
Base material:	None		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	None		
Hardware:	ADA compliant		
Lighting	Utility Standard		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

Ventilation of equipment per code
Area drain in dock recess area
Dock-leveler and bumper

Technology

Power outlet - floor and walls	yes – as appropriate
Voice and data ports	yes – phone / intercom and data
Security	yes
Technology equipment	yes – related to the equipment in the room
Wireless & Hard wired Network	yes – Access should be available
Integrated public address system	yes

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Sprinkler Room

Quantity: 1 (entire facility should be sprinkled)
Proposed SF: 250 to 300 SF

Space Design Concept

Sprinkler room for the fire suppression system

Program Activities

Mechanical equipment space

Loose Furnishings

none

Fixed Equipment

Acoustical treatment	no
Marker/white board (Multiple)	no
Tack board & display boards	yes – 1 at 4 linear feet (post notices)
Projection screen/surfaces	no
Flag Bracket & Flag	no
Display and book shelves	no
Tall wardrobe and storage cabinet	no
Fixed cabinets and accessible work surfaces	no

Finishes

Floor material:	Concrete		
Base material:	None		
Wall material:	Block / Sheetrock	finish:	Paint
Ceiling material:	None		
Hardware:	ADA compliant		
Lighting	Utility Standard		
Windows	No		
Fire extinguisher & suppression	per code		

Special Requirements

Ventilation of equipment per code
Area drain in dock recess area

Technology

Power outlet - floor and walls	yes – as appropriate
Voice and data ports	yes – phone / intercom and data
Security	yes
Technology equipment	yes – related to the equipment in the room
Wireless & Hard wired Network	yes – Access should be available
Integrated public address system	yes

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Toilets and Janitors Closets

Quantity: 3 Pairs
Proposed SF: 100 to 150 SF – 2 Pairs
Proposed SF: 400 to 650 SF – 4 Pairs

Space Design Concept

The toilets should be located in pairs with a men's and women's (boys and girls) toilet on each area of the school. Additional toilets will be located in proximity to the assembly spaces such as the auditorium and gymnasiums etc. All Toilets will be accessible with a HC stall. Faculty bathrooms should be located near the faculty work rooms, lounge(s) and throughout appropriate areas of the building.

Program Activities

Rest room for all occupants

Loose Furnishings

Toilet accessories such as soap, toilet paper etc.

Fixed Equipment

Acoustical treatment	yes
Toilet accessories	yes
Toilet Partitions	yes – lockable
Accessible counter surfaces	yes

Finishes

Floor material:	Ceramic Tile	
Base material:	Ceramic Tile 6 feet high minimum	
Wall material:	Block / Tile	finish: Ceramic Tile
Ceiling material:	Moisture resistant Acoustical Tile	height: 8'-0" minimum
Hardware:	ADA compliant	
Lighting	Multi-level direct	
Windows	Translucent - Maximize natural light	
Fire extinguisher & suppression	per code	

Special Requirements

HVAC systems including Air Conditioning
Sensor activated
Floor drains
Changing tables in specific toilets

Technology

Power outlet - walls	yes – as appropriate
Voice and data ports	yes – phone / intercom and data
Security	yes
Technology equipment	no
Wireless & Hard wired Network	yes – per the district's technology plan
Integrated public address system	yes

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