

ECTS

Construction Trades

- Addition is nice
- Theory room too small - 24 chairs and 47 students
- Dust is an issue - cleaning
- Market - students could be valuable to local trades
- Possible second classroom
- Two teacher lab
- 3 - 5 life skills students
- Bigger day with three levels
- Lighted sign out front - scrolling sign and upcoming events. Emphasis on projects.
- Card entry system - go in thru one door
- Toilet Room in lab, urinal and toilet, no sink - need sink desperately
- Coed labs
- Wish list- Grass area - 50 - 60 wide, would like it concrete, hard flat surface to work on
- Security camera upgrade
- Walk is tedious, need access directly to lab
- Works fine - additional space not needed
- Electrical breakers currently located in ceiling - difficult to access - need to be lockable
- Fits with economy
- Adequate budget and tools

Tool and Die

- Equipment - one small wire EDM
- Media cabinet built in classroom
- New projector - needs (2500 +) lumens for LCD projector
- Total of eight computers would be great
- Shop air - maintenance has control; would be nice for individual control
- Turn on/off with computer - to turn on
- Better air compressor - permanent and turn ball valve to have energized in that room only
- (3) vertical mills - lighting an issue
- (2) lathes - smart board
- (1) surface grinder
- Physical space okay
- 1/3 room dedicated to plastics

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Drafting and Design

- Room functional, good size and shape okay
- Lighting, better lab in both rooms
- Smart board would help
- Furniture okay, furniture moveable - cleaning is difficult
- Student lounge - tie in with kitchen and wi-fi connection
- Break time - possible courtyard, need comfortable space
- Flat screens thru out building - broadcast cable programs, projects on and info on classes
- Built in tables? Moveable
- Vision is required for whole room
- Lots of storage - existing storage good
- Power poles - if they could be removed it would be nice
- Space is good
- Display for work - 3D modeler, in and out of classroom (display case) and market okay
- Computer room too bright
- Individual lights - telescoping necks
- Bigger monitors or maybe two monitors

Computer Information Systems

- Configuration - horseshoe works well
- Configuration - needs to be redesigned
- Room is ideal for vision
- Lighting is terrible - way too dark
- Add carpeting
- Windows or day lighting - glass in corridors to classrooms
- Teaching Technology
- Fit economy
- Smartboards
- Need for cable access - record/show tech
- Need separate server
- Concern with carpet
- Better job of recruiting and advertising - hire advertising agency
- Dedicated theory room for math

Electronics

- Solid future
- Training scope - bench is less and less
- Working with machines in an environment
- Less technical with computers
- More machine tech skills
- Lighting needs addressed
- Full vision of room with U shape

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- Backs to teachers, students around perimeter
- Need lighting along perimeter
- Carpeted and quiet area - eliminate chemical storage
- Instrumentation in center - robot in middle of room - goes in circular
- Opportunity to teach
- Quiet area, central and robot area - need vision of entire space
- More natural lighting
- Lack of computers - need computer space
- CD based education
- Fit needs of local economy
- More practical skills with mock up machine, flow rate meter, etc.
- Apprenticeship programs coming back, in-house, usable hands on skill, could utilize for companies.
- Curriculum good, need equipment, better serve adults thru apprenticeship
- Need equipment that can be seen by teacher
- More windows into classroom from corridor
- Shift from theory and bench tech
- 150 acres for solar, geothermal and wind

Tourism and Hospitality Management

- Unique situation - size of room
- Risers; theater seating would be preferred
- Smartboard would be useful
- Lab is at hotel - off-site
- Needs theory room
- It would be nice to have office - secure
- Theory room bigger
- It would be nice to have rest room and storage
- Computers for 15
- Water fountain in classroom

Health Assistant

- Separate theory from other space
- Laundry area with linen storage - wash/dryer
- Locker rooms - female and male - 35 lockers for 40-50 students
- Counter area - kitchen counters - U shaped counter not in theory area
- Equipment storage area - lockable
- Computer area for 15 students
- Quiet area - study area - 6 students
- Visual with glass or group study
- Expand medical program - do not duplicate services of other buildings
- Natatorium - 3 pools in area, CPR and weekly. Lifeguard classes - offer to community - swimming instruction. Lifeguard "closed beaches" not enough lifeguards
- Adult classes - boating

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Auto Body Repair

- Telephone, portable or bell or light
- Area to lock up toolboxes - sitting around now
- Panel storage - hoods, fenders, deck lids
- Mig welding - strategically located next to paints - need to move - mix and storage.
- Larger office area
- Indoor area similar to paint booth to sand blast (spring and fall) need good weather, can't sand blast in shop - could reclaim sand
- Collision repair - two separate programs, 1. Refinishing/painting and 2. Collision repair - dents/damage
- Virtual paint - system would be state of the art technology

Cosmetology

- Utilize bathroom and shower facility with individual showers - faculty/students
- Utilize wind energy
- State minimum for space
- Need computers - 15 (not as often)
- Need more space
- Whiteboard useless - go back to chalkboard or overhead projector
- Storage areas small and inefficient
- Throughout clinic - power poles stationary and in bad locations
- Increase size of program - additional instructor - growth in skin care
- Training in aesthetics - microderm abrasion - no space to do it now

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Graphic Communications

- Conversation area for entire school
- Administration/Counselors - in one area
- Need dedicated school entry - hard to find office
- Add school store with books and souvenirs
- Could use more space in lab and office
- Equipment - packaging equipment
- Heat transfer equipment
- Laser engraving
- Letter press and production area
- Need new AV equipment
- Projection - LCD and smart board
- Synchronize computers with teacher
- Climate on issue - VOCS in pressroom - need exhaust
- 22 computers in classroom
- Larger office

Culinary Arts

- Run two different labs, need theory room
- Instruct a culinary class
- Two teaching areas in lab (sitting or standing)
- Lab currently split in two - windows?
- Assembly needs— $\frac{1}{2}$ doing projects and $\frac{1}{2}$ being given instruction
- Areas need more space
- Storage for stand mixers, food processors - in close proximity
- Freezer/cooler okay
- Paper supplies need storage
- Office needs to be bigger
- Place to barbeque and a garden or greenhouse
- Theory room inadequate
- Lockers not good - too small
- Larger dining area - serve lunches, for private meetings and a small area for visitors (maybe in area of greenhouse)
- Three dining rooms total - (including Eagles Nest)
- Rent out space, provide services and real life experience
- Larger area - 2 times size (originally one)
- Larger kitchen, food prep
- Dining/Conference room
- Locker rooms inadequate
- Lockers close to laundry room
- Lockers exit thru laundry room
- Redesign kitchen and lab space
- New, larger dining room, for meetings, two dining areas/conference room
- Possibly divide dining areas

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Art and Design

- Natural lighting, tile ceiling
- Daylight balance lighting
- Second exit from classroom
- Bathroom in room
- Secure storage - adequate chairs
- 16 static computers - no laptops
- All lockers in classroom
- Access to temperature control - too cold, too hot
- Every lab should have access to fuse boxes
- Larger room
- Separate theory room
- Areas for particular class
- Easel and photo studio area
- Mat cutting and dry mount area
- Desks lower with computer in desk
- Eliminate dark room, part storage
- Sight lines throughout space, would like office and still be able to see students
- Upgrade wiring
- Control lighting - possibly dimmers
- Spray booth needed and better ventilation
- Larger area for storage and lockable portfolio case storage
- Flat screen monitor in lobby to display digital work in lab
- Student lockers - inadequate size - need wider and deeper
- Light colored floor - a wood parquet floor would be better
- Floor is cement - acoustics and standing on tough
- Copier in classroom
- Drinking fountain in classroom - keep students out of hallway
- Visual Communication Area
- Illustration, web design and digital photo
- National Accreditation - advance placement for college credits
- No handicap doors - need push button for automatic access

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Early Childhood/Graphics

- Need storage space - lockable
- Temperature issues - (usually cold)
- Shortage of computers (4 or 5), more would help in graphics
- Different labs each year
- Construction and EE
- Permanent office needed
- Room for all instructional aids
- Need space to be secure
- Filing cabinets and two drawers now
- Need resource room back with coat closet centrally located
- Need spot for student testing
- Staff lounge is a catch all now - lounge not used as a lounge
- Coat closet to lock up personal items
- Materials for storage in same office area
- Resource Room with computers, testing, supplies, etc.
- Individual control of HVAC systems
- Hot water system needs upgrade
- Private bathroom for faculty
- Cafeteria - front door push button for ADA
- Greenhouse for Culinary Arts and Horticulture
- Faculty space
- Space for aides to do work
- Separate storage area
- Need air conditioning
- Faculty needs window
- Lobby Area - display cases for students work - rotating exhibit - lockable
- Signage out front - electronic message center
- Tie labs together - team teaching
- Windows and daylight great
- Exit to playground nice
- Theory room too small - need windows
- 24 computers
- Location for theory room bad
- Pre-school could increase
- Student prep area within vision of area and hand wash
- Pre-school adequate
- Double size of classroom and add office area
- Theory room next to observation room with windows - right next door
- Update Technology
- Eliminate waiting list by increasing size
- Office in both rooms - pre-school and high school
- Outdoor storage shed for outdoor toys

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Interviews with Support and Administrative Staff

Co-Op and Business Partnerships

- Classroom grows over course of year (10-70 students)
- Break out rooms
- Contacts with business people
- Must go to Skill Center
- Would be nice to have space in ECTS for meetings
- Cannot see front doors
- Security camera with buzzer system

Co-Op and Placement

- Need paper, notebook storage
- Need places for storage, pamphlets
- Need a conference room
- Interviews for 4 or 5 students, a break out room would help
- A 12 x 14 space
- Space for 4 filing cabinets
- Conference Room with kitchenette would be good
- Record storage - needs to be accessible
- Areas to expand - possible four extra classrooms
- 911 Center wants to work on a program
- Co-Op needs to be enlarged
- Six offices exist now in cubicles
- Need for Co-Ops in community
- A lack of students for Co-Ops
- Cosmetology, Culinary Art and Child Care are desirable programs for students
- Skills necessary for possible second job to earn money for college
- Attract students to less desirable classes
- Advertising of classes within school for student interest
- Students only have three choices, would be nice if they have more options
- Visitations by students for class interest - let them look and see
- Add more student display
- Rolling job notices in lobby, with digital screen
- Add a food court or café to lobby
- Possible to serve public thru cafeteria - networking for community/marketing

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Adult Education

- Outgrown office
- Two employees now
- Finger printing done in office
- Good location at front of the school
- Need more room, seating, finger printing area
- Could be more efficient
- Likes office location - near front
- Lacks classroom to conduct workshops - go off campus now

Office

- Office has pleasant atmosphere
- Need place for six students
- ISS - students everywhere - needs to be addressed
- Need new instructors mailboxes
- Relocate mailboxes in office to be more accessible
- Better set up for student files and records
- Need small library/resource center connected to office
- Need larger counter at main office
- Glass to corridor - safety
- Principal, Guidance and Conference Room should be sound proofed
- Redesign office to be C-shaped for security and privacy
- Need more storage space
- Separate server room
- Incorporate files with storage
- Need visual of back parking lot and doors
- Groups that come in at night need space - no place for them
- Possible flex space for four classrooms with operable walls

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Business Office

- Better landscaping
- If a horticulture class was developed- landscaping could be done by students
- Like easy access for students
- In good location
- Office a good design with everyone together
- Toilet Room ventilation needs addressed
- Would like to add area, need more space
- High School Office is busy, congestion
- Deliveries and students go thru High School Office
- Need larger High School Office space
- Need storage and larger work area
- Storage needs to be secure
- Need bigger mailbox area, need place to stack
- Need place for sick students
- ISS area - need larger area, need visual of this room
- Bathrooms need to be private
- Need separate conference room, one know, need two
- Need to be more recognized
- Need better security
- Cameras for security with large screen in office
- Need more vision of front of building
- Existing Staff Lounge - not comfortable and used for everything - not a staff lounge
- Need more meeting space
- More parking out front needed
- Actual work area, redesign work area to be more efficient
- Need more file space
- Larger toilet rooms in office
- Good flow in office now
- Improvements - have kitchenette with sink with wash sink
- Heat in Business Office - individual control would be nice
- Nicer waiting area - larger - secluded
- A central work area with mailboxes
- Business Office needs its own Conference Room
- Kitchenette need sink and serving in business suite
- HVAC - units need to be replaced out front
- Possible second floor enclosure for mechanical equipment
- Weld shop needs room
- Construction - built big area outside classroom
- Move programs to other building
- Record storage

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Instructional Aids

- Several different labs
- Four different labs - likes to work with special needs
- Hospitality and Tourism class way too crowded - need private area for confidentiality
- Need privacy - small room for private conversation
- Room with glass for view of classroom
- Staff Lounge - as a dedicated Staff Lounge - couch, pop machine
- Just for faculty - toilet rooms (private) and every lab should have an instructional aides
- Aides need more recognition

Skill Center Issues

- Fascia rusty; needs updated
- Smoke stack/incinerator - remove or keep
- Dumpster location and access important - trash collected in three locations - one central location
- Metal fab/machine tool and die have scrap storage. Aesthetics - looks unsightly
- Exterior Skill Center - paint
- ADA Accessibility
- Sidewalks - some need replaced - review all walks
- Receiving at kitchen - ponding water in lot
- Yard drainage and catch basins
- All water flows towards Skill Center - ices up
- Server Area - needs room for expansion
- Public address system - add music if possible - tie into phone

Food Service needs to be expanded with locker room

Miscellaneous Notes

- Air compressor replace
- Replace single pane windows
- Lobby windows single pane also
- Look at replacing other windows
- Utility storage - connected to building
- Seasonal storage - function like Skill Center
- Signage for parking and direction
- Being cutting edge on Technical Schools
- Be a Tech School and self-sufficient
- Showcase technology at the Tech School
- Wind, solar and geothermal

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- Natural lighting in areas
- Technology and Smartboards - start using technology
- Add computer labs for self-learning internet classes
- Controlled entrance
- Student body in one area at one time - opportunity to be with all students
- Cafeteria and Kitchen need to be renovated
- Rain water collection - for horticulture
- Compactor for trash and shredder, get rid incinerator
- Garage by itself - would be nice to have it attached to the school
- Demo old garage and attach to building
- Need storage
- Loading Dock Area - designed for warehouse classroom
- Warehouse program - use it as storage and a classroom - sign in and sign out
- Possibly flip maintenance and warehouse and get maintenance on an outside wall
- Theory Rooms - need air conditioning, lots of heat develops
- Sawdust is an issue
- Chiller (1992 installation) - three compressors and only one works
- Transformers and lighting need replaced
- Drains need addressed
- HVAC units need replaced - kitchen, cosmetology and office
- Make up air units need replaced
- Sensors on kitchen hoods to shut them down
- Classes - 1. Horticulture, Diesel engine shop program, Heavy equipment - CDL class, Medical, EMT, paramedic, LPN and Fire science, policy, security
- Keep students here all day
- Include bakery in kitchen
- Need 40" double doors on shop rooms
- Need doors to be big enough to bring in equipment

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Educational Consultant Review Paul Abramson

Introduction

The following is meant as something of a summary report on the results of our work with the Erie County Technical School. It includes two tables, one showing the existing space by department/function, the other looking ahead to the school's future needs, assuming it grows and adds programs as forecast. As you know, all of this material has already been presented to the superintendents.

As it now exists, the ECTS campus, including the Regional Skill Center (RSC), encompasses about 110,000 sq ft (including unfinished space and the possibility of a second floor in some areas of the RSC). The indication is that to accommodate all desired programs and administrative space, approximately 144,000 square feet will be needed. Additional classroom space (approximately 4,000 sq ft) will have to be provided for the RCI program and for any community college activities that may occur.

Obviously, the present ECTS building could not handle the proposed expanded program. Consideration was given to construction of additional buildings and/or to upgrading and using the existing Regional Skills Center building. The RSC is not a particularly attractive building but it contains a great deal of space on two floors that can be converted to program use. Converting and using that building would be more cost-effective than constructing entirely new buildings. However, in order to create a single complex, it is recommended that a connector building be designed and constructed. That connector would probably contain administrative space, dining and socializing areas for students, possibly the culinary program (connected to the student cafeteria) and could become the front door for ECTS and related programs.

Remaining Questions

After our last meeting it seemed to me that three important issues needed further consideration and discussion. These included the desire to have a community college established on the ECTS site (preferably with connections to ECTS); whether/how ECTS could expand its programs now, prior to a major construction project; and the question of providing a full academic program at ECTS so that students could remain on the campus for a full day. I have taken the liberty of commenting on these three issues in the balance of this memorandum.

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Remaining Questions

1. Establishing a community college.

Erie County needs a community college and there have been discussions about it over a number of years. Those discussions apparently proceed at a rather desultory pace. It is suggested that the superintendents become pro-active and press this issue, even to the point (if Pennsylvania law allows it) of taking the lead and making the school districts the owner/operators of the community college. A logical place for such a college would be on the ECTS campus. There is some urgency to this because community college functions should be included as part of the expansion of ECTS space. If it is not, there will be no incentive for the college to be located on this campus.

2. Getting started.

It is possible for ECTS to expand some programs prior to major reconstruction. If there are programs that need immediate relief, administrative functions could be moved out of the ECTS building (into space that is now empty in the RSC structure). As an example, if the ECTS administrative offices were removed from their existing space, it would be relatively easy to double the cosmetology program. Moving the high school administration would be more difficult, but some portions could be separated, perhaps allowing the health or early childhood programs to expand. In a sense, these would be stop-gap measures, but they should be considered as a means to provide additional opportunities for students more quickly. Consideration also could be given to dropping an under-subscribed program or examining ways in which two under-subscribed programs might share a single space. (Some existing programs use similar computer equipment but different programs and might be able to be operated in the same space.)

3. Adding academic programs.

There was considerable discussion concerning the possibility and desirability of expanding the academic programs offered at ECTS so that students could spend a full day at ECTS, rather than being transported to half-day programs and then back to their home schools for academics. Students attending ECTS would be transported there in the morning and remain all day, saving time for the students and money for the districts. As discussed, students could then return to their home schools for extra-curricular activities including sports, music and clubs. *While it seems sensible, I would caution that there are significant potential side-effects that should be studied carefully.*

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Summary Paul Abramson

ECTS now has 830 students, approximately half attending in the morning, half in the afternoon. If all of those students stay a full day on the ECTS campus, that creates an 830-student high school with needs for a full-service cafeteria, recreation and/or physical education space and an administrative structure commensurate with a medium-sized high school. It would also bring some teachers to the building full-time. They would need classroom and work space.

If, as planned, ECTS doubles in size with the expansion of existing programs and the addition of several new programs with high demand, a full-day ECTS offering students both academic and technical programs could become a 1,600-student high school, a very large school that could easily become known as the "vocational school" for poor students, rather than (as now) a coveted opportunity for high-level technical education.

Putting 800 to 1,600 students onto a central ECTS campus would also have an effect on the "home" high schools. Faculty would have to be recruited (would each district give up its best teachers or would the best be retained at the home high school?), diluting the faculty and possibly limiting courses available to all students.

By the same token, many of the students who normally take leadership roles in their home schools would not be there. The existing high schools are not so large that these defections can be absorbed without affecting the school program. (As an example, last fall Iroquois High School had about 300 high school students with 34 at ECTS. Union City had 350 students with 40 at ECTS. If the number of programs doubles and students spend a full day at ECTS, Iroquois might lose 68 of its 300 students and Union City 80 of its 350.)

There are alternatives to both the half-day program now in existence and the full-academic program suggested that ought to be investigated. As examples, there are county technical schools where students spend a semester at the technical school, then a semester at their home school getting their academic studies. That has led to some problems in terms of discipline and loss of contact, but it eliminates the half-day program. There are other ways, perhaps better ones, to accomplish the same thing.

One might involved students spending one week at ECTS, the second at their home schools, in each case staying a full day. The advantage is that they retain a close relationship with faculty and friends at both sites and, at ECTS particularly, projects might be planned so that they can be started and completed during a single week. Similarly, academic studies might be organized so that a week of doubled classes completes a section or study.

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Another way to create a full-day ECTS program for students might be through a six-day rotation so that half the students would go to ECTS on an odd day; half on an even day, each staying a whole day. There are probably many other ways to create a similar opportunity.

In all of these options students would be on campus for a full day and ECTS would take on some added responsibility (certainly the cafeteria program would have to be upgraded and some form of recreational and/or social space would have to be provided) but the overall number of students on the campus would remain at a reasonable level (about 800). At the same time, each district's academic program and faculty would be preserved and the home schools would have control and responsibility for each student's academic progress.

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Basic Considerations, Rationale and Concepts

1. Several existing programs are oversubscribed and could expand (double up) if space was available (specifically cosmetology, early childhood and health assistant).
2. There is a list of other courses that ECTS would like to start for which space is not now available (public safety, health professions, clerical, natural resources, diesel, and others).
3. There is interest in expanding the academic course offerings for students so that they could take all their school work at ECTS. Indications are that as much as 40% of students might choose this option if offered.
4. It would be educationally advantageous to expose students to a variety of different programs that might utilize their skills. Thus, students who opt for cosmetology might be attracted to the opportunities in nursing and healthcare (or public safety); students enrolled in courses making use of computers (i.e. graphics) might be interested if they were aware that the same skills could be used in drafting. Thus an effort should be made to open up the interior of the building and to make various courses more visible. (As a sidebar, a redesigned facility ought to provide multiple places for exhibits to demonstrate work and skills).
5. Some of the existing programs are in inappropriate or minimal space (especially culinary, early childhood and health assistant).
6. ECTS is home to two programs for alternative education students. Neither program is properly housed now. Each needs its own space.
7. ECTS is home to the RCI program, offering interested high school seniors an opportunity to take college level courses for credit. It needs about five classrooms. There are classrooms now but they are not good spaces.
8. ECTS is home to adult education programs. Welding is a particularly popular one and is often a daytime class. Facilities need to be available for adult use without compromising the ECTS program.
9. There is a desire to bring a community college to the area, preferably on the ECTS site. To make that possible, classrooms and labs would have to be provided.
10. The ECTS building is a good one, quite attractive but too small to house expanded programs. The adjacent Skill Center is not an attractive building but it contains a lot of raw usable space. It should be significantly remodeled to create a full two-story building for selected programs (some of which would move out of the ECTS building).

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11. In choosing programs to be in the Skill Center and/or the ECTS building, an effort should be made to develop clusters that would expose students to options in areas that would interest them. At the same time, it is important not to put all of the “hard” subjects in one building and the “soft” ones in the other. They should be integrated.

12. An attractive “welcoming” building could be created to connect the two existing buildings. That connecting building could house the ECTS administration, possibly the high school administration, classrooms (or at least provide for future classrooms) and a commons area with food service for students. If so, the culinary program should also be located there.

13. All programs should have the same basic mix of spaces including:

- A. A theory room (classroom) to house all of its students (24). Suggest 750 sq ft.
- B. An office for the teachers. Suggest 110 sq ft minimum (220 where courses are doubled up).
- C. Space for storage of materials. Suggest setting aside 200 sq ft as a minimum for all programs; add as needed for programs where students need changing rooms and where storage needs are greater because of materials used or where projects need to be set aside out of harm's way.
- D. Lockers for boys and girls should be provided for all courses.
- E. Lab space. This will vary by program but 750 sq ft would be minimum for programs that also use off-campus lab space (i.e. tourism).
- F. In programs where two or more sections run at the same time (i.e cosmetology) it may be possible to double up use of lab and/or theory space.

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Program Space Needs Paul Abramson

<u>Program</u>	<u>Existing</u>	<u>Needed</u>	<u>Comments</u>
Culinary	6,890	10,000	Includes cafeteria; add office (@ 110), lockers with toilet facilities for changing; (4 @ 30 students each), expand "lab" area, storage; add Theory Room (750)
Early Childhood	2,360	5,000	End split space. Two programs, each needs Theory Room (750) and Prep Room. Lab space (1,240) sufficient. Retain offices, kitchen, laundry storage, add lockers for changing.
Cosmetology	2,970	6,000	Current space good but two programs needed. Lockers tight. Possibly expanse into Erie Tech admin offices (1,590); programs could share lab
Health Occupations	1,785	11,000	Adding new programs; theory roommate cluster; each of three programs with lab (1,700), Theory Room (750), office (110), storage (125), lockers (m/f 400) = 3,100 s.f. Programs are diagnostic (radiology tech; may need added space); medical services (nursing, dental asst) and rehabilitation (occupational and physical therapy)
High School Admin.	2,825	4,000	Space tight now
Erie Tech Admin.	1,590	2,250	Add building manager and IT director plus clerical, waiting and rest room expansion.
Tourism	1,130	2,000	Needs lab (750) and Theory Room (750); add office (110), storage and lockers (200). Cluster with culinary to share spaces?
Electro Mechanics & Electronics	4,070	4,070	Okay as is; consider as a cluster. Need a Theory Room? Not clear.
<u>Cluster:</u>		11,500	
Machine Tool & Die	5,785	5,785	Sufficient space
Metal Fabrication	4,110	4,110	Sufficient space but move adjacent to Machine Tool
Adult Welding (new to building)	New	1,500	Added space for welding booths, lockers, storage, office
Drafting & Design	2,100	2,100	Sufficient as is
Alternative Ed - MS		5,000	Include tech lab (1,400), 4 Theory Rooms (2,400), time out (50), 5 offices (550), Conference Room (for 6 to 8), lockers, storage
Alternative Ed - HS		5,000	Similar space to MS - both need to be developed with staff