Brazosport College

Syllabus for PTAC 1302 – Introduction to Process Technology

Instructor: Chad AbneyOffice: HS.212COffice Phone: 979-230-3314Email: chad.abney@brazosport.eduAlt. Phone: 979-230-3618Office Hours: M-R 9am-12N + other times as scheduled

I. COURSE DESCRIPTION:

PTAC 1302 - Introduction to Process Technology CIP 4103010003

Introduction to chemical and refinery plant operations. Topics include process technician duties, responsibilities, and expectations; plant organizations; plant process and utility systems; and the physical and mental requirements of the process technician. **Credit Hours:** 3 (3 lecture, 0 lab)

Chad Abney

Danny Randolph

Karl Grossman

Gregg Curry

Kenneth Resecker

Ed Smolen

Mark Stoltenberg

Gary Hicks

Dr. Mitchell Seal

A. Required skill level: College-level reading and writing. Math: College-level with corequisite (placement code 3).

II. COURSE OBJECTIVES

Topic Name	Objectives
Course Overview	1. Describe the following components (aspects) of the PTAC Program:
	Individual expectations
	Program purpose
	Program value
	Industry involvement
	2. Review course objectives
History of the Process	1. Explain the growth and development of the process industries.
Industry	2. Report the impact of the industry on:
	• The community
	• Other industries
	• The environment
	• The economy
	3. Identify industry responses to current issues and trends such as:
	Global competition
	• Safety and environmental regulations
	Technology advancements
	4. Explain and describe the responsibility of the following regulatory
	agencies:
	• EPA (Environmental Protection Agency)
	OSHA (Occupational Safety & Health Administration
	• DOT (Department of Transportation)
	NRC (Nuclear Regulatory Commission)
	Homeland Security
	 Local and state regulatory agencies
Green Technologies	1. Describe Green technologies relevant to the industries in your area.
and Related	BioMass
Industries (Optional)	• Solar
	• Wind
	• Hydro/Water
	• Nuclear
	Recycling Technology
Your Career as a	1. Describe the roles, responsibilities, and expectations of the process
Process Technician	technician:
	• Work environment (all weather, drug and alcohol free, team-
	structured, and constantly changing and 24 hours per day
	operations).
	• Employer expectations.

Topic Name	Objectives
Your Career as a	• Equipment and process operations, maintenance and control.
Process Technician	• Physical requirements (lifting, pulling, climbing, etc.).
(cont.)	• Following all procedures, safety systems, and rules for
	everyone's safety and the protection of the environment
	• Housekeeping/Auditing is 24/7
	2. Describe the impact of shift work on:
	 Individual (Health and Safety)
	 Family relationships.
	 Describe changes and future trends in the role of the process
	technician.
	4. List the factors responsible for future role changes of the process
	technician.
	5. Describe the difference between organized and non-organized (union
	and non-union) operations.
Working as Teams	1. Describe the differences between work groups and teams.
working as realls	 Describe the different types of teams encountered in the process
	industries.
	3. Identify the characteristics of a "High Performance" or an effective
	team.
	4. Define the terms:
	Synergy
	• Team Dynamics 5 Describe the store or stores through which a team evolves (forming
	5. Describe the steps or stages through which a team evolves (forming,
	storming, norming, and performing).
	6. Identify factors that contribute to the failure of a team including:
	• Failure to achieve the defined outcome
	• Failure as a team to work together and achieve full synergy
	7. Define workforce diversity and its impact on workplace relations:
	• In a team environment
	Work group (co-worker)
Basic Physics	1. Define the application of physics in the process industries.
	2. Define matter and the states in which it exists.
	3. Use physical property characteristics to describe various states of
	matter (liquid, gas, and solids).
	4. Define and provide examples of the following terms:
	• Mass
	• Density
	• Elasticity
	• Viscosity
	• Buoyancy
	Specific Gravity
	• Flow
	Evaporation
	• Pressure
	Velocity

Topic Name	Objectives
Basic Physics (cont.)	• Friction
	• Temperature
	British Thermal Unit
	Calorie
	• Electricity
	5. Describe the three (3) methods of BTU (British Thermal Unit)
	transfer:
	Convection
	• Conduction
	Radiation
	6. Describe how Boyle's Law explains the relationship between pressure
	and volume of gases.
	7. Describe how Charles' Law explains the relationship between
	temperature and volume of gases.
	8. Describe how Dalton's Law explains the relationship between total
	and partial pressure of a gas.
	9. Describe how the General Gas Law explains the relationship between
	temperature, pressure, and volume of gas.
	10. Describe how Bernoulli's Law explains the flow of liquids and
	gasses.
	11. Describe force and leverage and their application to the process
	industry.
	12. Convert between scales using mass, flow and temperature which are
Pagia Chamistar	commonly used in the process industry.
Basic Chemistry	 Define the application of chemistry in the process industries. Describe the relationship between molecules, atoms, protons,
	neutrons, and electrons.
	 Define the difference between organic and inorganic chemistry.
	 Explain the difference between chemical properties and physical
	properties.
	5. Define and provide examples of the following terms:
	Hydrocarbon
	Boiling Point
	Chemical Reaction
	Oxidation/ Reduction
	• Acidic
	• Alkaline
	• Exothermic
	Endothermic
	Compounds
	• Mixtures
	Solutions
	Homogenous
	Equilibrium
	Catalyst
	6. Describe the difference between an acid and a base (caustic).

Topic Name	Objectives
Basic Chemistry	7. Describe the method of measurement for acids and bases. (What is
(cont.)	pH?).
Safety, Health, and	1. Discuss the safety, health, and environmental hazards found in the
the Environment	process industries.
	2. Describe the intent and application of the primary regulations
	impacting the process industries:
	CFR (Code of Federal Regulations)
	• CFR 29
	• OSHA 1910.119 – Process Safety Management (PSM)
	• OSHA 1910.132 – Personal Protective Equipment (PPE)
	OSHA 1910.1200 – Hazard Communication (HAZCOM)
	OSHA 1910.120 – Hazardous Waste Operations and Emergency
	Response (HAZWOPER)
	• DOT CFR 49.173.1 – Hazardous Materials – General
	Requirements for Shipments and Packaging
	• EPA CFR 260 - 270 – Resource Conservation and Recovery Act
	(RCRA)
	• 40 CFR 60-63 – Clean Air Act
	3. Describe the role of the process technician in achieving successful
	compliance with regulations.
	4. Describe the personal attitudes and behaviors that can help to prevent
	workplace accidents and incidents.
	5. Describe the components of the fire triangle and the fire and fire
	tetrahedron.
	6. Identify the consequences of non-compliance with regulations:
	• Legal
	Moral and Ethical
	• Safety, Health, and Environmental
	• Economics
	7. Explain the managerial and engineering controls used in the industry
	to minimize hazards and maximize worker and system protection in
	the workplace.
	8. Describe (demonstrate, if possible) the correct use of personal
	protective equipment (PPE).
	9. Describe the intent of the OSHA – Voluntary Protection Program
	(VPP). 10. Describe the application of the International Organization of
	Standards (ISO)-14000 as it relates to the process industries.
Principles of Quality	 Identify responses in the process industries to quality issues.
I merples of Quality	 Describe the role each of the following played in quality
	implementation:
	W. E. Deming
	 Joseph Juran
	 Philip Crosby
	 Philip Crosby Describe the four (4) components of Total Quality Management
	(TQM) and how it is applied in today's workplace.
	(1 XIVI) and now it is applied in today's workplace.

Topic Name	Objectives
Principles of Quality	4. Describe the application of the International Organization of
(cont.)	Standards, ISO-9000, as it relates to the process industries.
	5. Describe the use of Statistical Process Control (SPC) in the
	workplace.
	Describe the roles and responsibilities of the process technician in
	supporting quality improvement within the workplace.
Piping and Valves	1. Describe the purpose or function of piping and valves in the process
	industries.
	2. Identify the different materials used to manufacture piping and valve
	components:
	Carbon Steel
	Stainless Steel
	• Iron
	• Plastic
	• Exotic Metals (alloys)
	3. Identify the different types of piping and valve connecting methods:
	• Screwed
	• Flanged
	• Welded
	Glued or bonded
	4. Identify the different types of pipe fittings used in the industry and
	their application:
	• Coupling
	• Elbow
	• Tee
	• Cross
	• Union
	• Nipple
	Bushing
	• Plug
	• Cap
	5. Identify the different types of valves used in the industry and their
	application:
	• Ball
	• Butterfly
	• Check
	• Diaphragm
	• Gate
	• Globe
	• Plug
	• Relief/Safety
	-
	6. Discuss the hazards associated with the improper operation of a
	valve:
	Personnel hazards

Topic Name	Objectives
Piping and Valves	Equipment hazards
(cont.)	Production Loss or Product Damage
	• Environmental Damage and Cost of Cleanup
	7. Describe the monitoring and maintenance activities associated with
	piping and valves:
	Look:
	 Inspect for connection leaks
	 Inspect for wear from corrosion or erosion
	 Check for loose valve parts
	 Verify proper positioning of valves
	Do:
	 Grease and lubricate
	 Adjust packing
	• Labeling
	8. Identify the symbols used to represent the different types of piping
	and valve components presented in this session.
Tanks, Drums, and	1. Describe the purpose or function of tanks, drums, and vessels in the
Vessels	process industries.
	2. Explain the relationship of pressure to the vessel shape and wall
	thickness.
	3. Describe the purpose of dikes, firewalls and containment walls around tanks, drums, and vessels.
	 Define and provide examples of the following terms as they relate to
	tanks, drums, and vessels:
	 Floating Roof
	Sphere
	Blanket
	 Vapor Recovery
	 Foam Chamber
	 Vortex Breaker
	 Sump (Possum Belly)
	Baffle
	Mixer
	• Weir
	Gauge Hatch
	Boot
	• Manway
	 Heat Tracing (steam or electrical) Describe the manitoring and maintenance activities approximated with
	5. Describe the monitoring and maintenance activities associated with
	tank farm operations: Listen: abnormal noise
	Touch: abnormal heat on vessels and piping
	Look:
	Monitor levels
	 Check firewalls and sumps
	 Corrosion and Discoloration

ers t the different types of tanks, ession. s of reactors and their purpose. lowing: rosion, pH, etc.) umps in the process industries. 70 common types of pumps used
ession. es of reactors and their purpose. lowing: rosion, pH, etc.) umps in the process industries.
ession. es of reactors and their purpose. lowing: rosion, pH, etc.) umps in the process industries.
rosion, pH, etc.) umps in the process industries.
rosion, pH, etc.) umps in the process industries.
rosion, pH, etc.) umps in the process industries.
umps in the process industries.
umps in the process industries.
umps in the process industries.
umps in the process industries.
umps in the process industries.
umps in the process industries.
umps in the process industries.
o common types of pumps used
al)
reciprocating)
centrifugal pump:
al pump.
tary and reciprocating positive
is positive displacement pumps:
displacement pump.
he improper operation of both
igal pump:
ance activities associated with
(be aware of high
(
langes
C
t the different types of pumps.
ompressors in the process
1 1
p and compressor in terms of
vo (2) more common types of
stries:
l reciprocating)

Topic Name	Objectives
Compressors (cont.)	4. Identify the primary parts of a typical centrifugal compressor:
1 ()	5. Describe the operations of a centrifugal compressor.
	6. Explain the difference between rotary and reciprocating positive
	displacement compressors.
	7. Identify the primary parts of a positive displacement compressor.
	8. Describe the operations of a positive displacement compressor.
	9. Discuss the hazards associated with the improper operation of both
	the positive displacement and centrifugal compressor:
	Personnel hazards
	Equipment hazards
	Production
	• Environment
	10. Describe the monitoring and maintenance activities associated with
	compressors:
	Look:
	• Check oil levels, check for leaks at seals and flange
	Check suction and discharge pressures
	Listen: Inspect for abnormal noise
	Inspect: Inspect for excessive heat and vibration (be aware of high
	temperatures)
	11. Identify the symbols used to represent the different types of
	compressors presented in this session.
Steam Turbines	1. Describe the purpose or function of steam turbines in the process
	industries.
	2. Identify the primary parts of a typical (non-condensing) steam
	turbine:
	• Casing
	• Shaft
	Moving and fixed blades
	• Governor
	• Nozzle
	• Inlet (Suction)
	• Outlet (Discharge)
	Trip and Throttle Valve
	3. Describe how a steam turbine operates.
	4. Discuss the hazards associated with the improper operation of a
	steam turbine:
	Personnel hazards
	Equipment hazards
	Production
	• Environment
	5. Describe the monitoring and maintenance activities associated with a
	steam turbine:
	• Look:
	• Check oil levels-lubrication
	• Check bearings

Topic Name	Objectives
Steam Turbines	• Check for leaks at seals and flanges
(cont.)	 Check RPMs
	• Listen: for abnormal noise
	• Inspect: Check for excessive vibration (be aware of high
	temperatures)
	6. Identify the symbols used to represent the steam turbine and
	associated equipment presented in this session.
Electricity and	1. Explain the difference between AC and DC current.
Motors	2. Identify what current (AC, DC, 3-phase, single phase) is most
	commonly used in the Processing Industry.
	3. Explain basic motor controllers
	4. Describe the purpose or function of the electric motor in the process
	industries.
	5. Identify the primary parts of a typical electric motor:
	6. Discuss the hazards associated with the improper inspection and
	operation of an AC motor:
	Personnel hazards
	Equipment hazards
	Production
	• Environment
	7. Describe the monitoring and maintenance activities associated with
	an electric motor:
	• Look:
	• Check lubrication
	• Check for loose covers and shrouds
	• Listen: for abnormal noise
	• Inspect:
	• Check for excessive heat
	• Check for excessive vibration (be aware of high
	temperatures)
	8. Identify the symbols used to represent electric motors and associated
	equipment presented in this session.
Heat Exchangers	1. Describe the purpose or function of heat exchangers in the process
(Part 1) Shell and	industries.
Tube	2. Recall the three (3) methods of heat (BTU) transfer:
	Convection
	Conduction
	• Radiation
	3. Identify the primary parts of a typical shell and tube exchanger.
	4. Describe the operations of a typical shell and tube exchanger.
	5. Describe the different applications of a typical shell and tube
	exchanger:
	• Reboiler (forced feed and thermo siphon)
	• Heater/preheater
	After-coolerCondenser

Topic Name	Objectives
Heat Exchangers	• Chiller
(Part I) Shell and	• Interchanger
Tube (cont.)	 Discuss the hazards associated with the improper operation of a heat exchanger:
	Personnel hazards
	Equipment hazardsProduction
	 Froduction Environmental
	7. Describe the monitoring and maintenance activities associated with a heat exchanger:
	• Look:
	 Check for external leaks – head, flanges, and bleeders Check for internal tube leaks – sample results Check inlet and outlet pressures
	• Check inlet and outlet temperatures
	• Listen: Inspect for abnormal noise
	• Inspect: Check for excessive vibration (be aware of high temperatures)
	8. Identify the symbols used to represent the heat exchanger and
	associated equipment presented in this session.
Heat Exchangers (Part 2) Air Cooled	1. Describe the purpose or function of an air cooled heat exchanger in the process industries.
Exchangers	2. Identify the primary parts and support systems of a typical air cooled exchanger.
	3. Describe the operation of an air cooled exchanger
	4. Describe the different applications or use of water from a cooling tower:
	Process condensers
	• Lubricating system coolers (Rotating Equipment)
	5. Discuss the hazards associated with the improper operation of an air cooled exchanger
	Personnel hazards
	Equipment hazardsProduction
	Environment
	6. Describe the monitoring and maintenance activities associated with an air cooled exchanger:
	Look: Leaks
	Listen: Inspect for abnormal noise (fans and motors)
	Inspect: Check for excessive vibration (fans and motors) be aware of high temperatures
	Identify the symbols used to represent air cooled exchangers, and associated equipment.
Heat Exchangers (Part 3) Cooling Towers	 Describe the purpose or function of a cooling tower in the process industries.

Topic Name	Objectives
Heat Exchangers	2. Identify the primary parts and support systems of a typical cooling
(Part 3) Cooling	tower.
Towers (cont.)	3. Describe the operation of a Cooling Tower
	4. Discuss the hazards associated with improper operation of a Cooling
	tower and the potential fire hazard when shutting one down.
	5. Describe the monitoring and maintenance activities associated with a
	Cooling Tower:
	Look: Leaks
	Listen : for abnormal noise (fans and motors) be aware of high
	temperatures
	6. Identify the symbols used with cooling towers and associated
	equipment presented in this session
Furnaces	1. Describe the purpose or function of a furnace in the process industries.
Furnaces	2. Describe the types of fuel used in a furnace
	Natural gasFuel oil
	Process oil
	• Process gas
	• Fuel gas
	3. Identify the primary parts of a typical furnace.
	4. Describe the different types of furnaces by draft:
	Natural draft
	Forced draft
	Induced draft
	Balanced draft
	5. Describe the different furnace designs:
	Cylindrical
	• Cabin
	• A-Frame
	6. Describe the monitoring and maintenance activities associated with a
	furnace.
	Look: positive/negative pressure, flame inspection, hot spots
	Listen: abnormal noise (i.e., incomplete combustion
	Inspect: visible emissions, on-line analysis
	7. Discuss the hazards associated with the improper operation of a
	furnace:
	Personnel hazards
	Equipment hazards
	• Protection (PPE)
	• Environment
	Identify the symbols used with furnaces and associated equipment
	presented in this session
Boilers	1. Describe the fundamental principles of boiler operation.
	2. Describe the operation of boilers in different applications in the
	process industries.
	3. Identify the primary parts and support systems of a typical fuel-fired
	boiler.
	00101.

Topic Name	Objectives
Boilers (cont.)	4. Describe the types of fuel used in a boiler:
	Natural gas
	• Fuel oil
	• Fuel gas
	Process oil
	Process gas
	5. Describe the different types of boilers by draft:
	• Natural draft
	Forced draft
	• Induced draft
	Balanced draft
	6. Describe the difference in fire tube and water tube boilers.
	 Describe the uniterine in the tube and water tube bollers. Describe the monitoring and maintenance activities associated with
	operating boilers:
	Look: Fire eye, boiler level, boiler pressure •
	Listen: abnormal noises
	Check: safety systems associated with a boiler
	Inspect: water level, water quality
	8. Discuss the hazards associated with the improper operation of a
	boiler:
	Personnel hazards
	Equipment hazards
	• Production
	• Environment
	9. Identify the symbols used with boilers and associated equipment
	presented in this session
Distillation	1. Describe the purpose or function of a distillation column or tower in
	the process industries.
	2. Identify the primary parts and support systems of a typical tray-type
	distillation column:
	3. Describe the distillation process.
	4. Describe the use of packing as it pertains to distillation.
	5. Discuss the hazards associated with the improper operation of a
	distillation column:
	Personnel hazards
	Equipment hazards
	Production
	• Environment
	6. Describe the monitoring and maintenance activities associated with
	distillation column operations:
	Listen: Inspect for abnormal noise (pumps and reboilers)
	Look: Check for leaks
	Look: Check samples for separation
	Look: Check temperature and pressure differentials (be aware of high temperatures)
	high temperatures)

Topic Name	Objectives	
Distillation (cont.)	Identify the symbols used with distillation columns and associated	
	equipment presented in this session.	
Process Control	 Describe the purpose or function of process control instrumentation 	
Instrumentation	in the process industries.	
	2. Describe the difference between process control indicators and	
	control loop inputs.	
	3. Describe the major types of process control instrumentation:	
	• Electronic	
	• Pneumatic	
	• Digital	
	Analog	
	4. Define a generic control loop and provide an example.	
	5. Identify four key variables which are controlled by process control	
	instrumentation:	
	• Temperature	
	• Pressure	
	• Level	
	• Flow	
	6. Identify typical process control instruments, their applications and	
	functions.	
	7. Describe distributive control systems and how they are applied in the	
	process industries.	
	8. Discuss the hazards associated with process control instruments (i.e.,	
	positioners, fail open/fail closed, leaks).	
	Look: Valve position	
	Listen: Leaks on pneumatic air systems	
	Check: valve stroke	
	9. Describe the monitoring and maintenance activities associated with	
	process control instrumentation.	
	Identify symbols used to represent process control instruments.	
Process Utilities	1. Discuss the different types of process utilities and their applications:	
	Water Systems (Boiler feed water, Drinking water, Cooling	
	water, Fire water, Service water, Process water, Potable water,	
	Condensate)	
	• Steam	
	• Electrical	
	• Air Systems (Plant, instrument air, breathing)	
	• • Sour water	
	Gas Systems (Fuel Gas, Natural gas, nitrogen, etc.)	
	CO2 (carbon monoxide)	
	2. Describe the different types of equipment associated with each of the	
	utility systems found in the process industries.	
	Identify symbols used to represent process utilities.	
Process Auxiliaries	1. Describe the purpose or function of the different process auxiliary	
	systems and their applications.	
	2. Discuss the different types of waste water systems and their	
	applications in process:	

Topic Name	Objectives
Process Auxiliaries	Treated water
(cont.)	• Waste water (Sewer, Storm, Oily)
	3. Discuss the equipment associated with flare systems found in the
	process industries.
	4. Discuss the parts associated with refrigeration systems found in the process industries.
	5. Discuss the parts associated with lubrication systems found in the process industries.
	6. Discuss the parts associated with hot oil systems found in the process industries.
	Identify symbols used to represent process auxiliary systems.
Process Print Reading	1. Describe the purpose or function of process systems drawings.
	2. Identify the common components and information within process systems drawings.
	 Identify the different drawing types and their uses:
	Block Flow Diagrams
	 Process Flow Diagrams (PFD)
	• Piping and Instrument Diagrams (P&ID)
	Plan drawing
	Engineering Flow Drawing (EFD)
	• Electrical Drawings: -Mechanical - Wiring Diagrams
	-Schematics
	• Isometrics
	Identify the different components and their symbols in each of the
	drawings listed above.
Process Facility Tour	Establish the relationship between content in the course and actual
(optional)	equipment in a process by conducting a facility tour. Consider the
	following:
	1. Transportation
	2. Access to the facility/safety orientation
	3. Tour Guide
	4. Proper clothing (PPE)
	*Suggested alternatives to touring process facility:
	College physical plant
	Public/municipal utilities

III. STUDENT LEARNING OUTCOMES

OUTCOME	METHOD OF ASSESSMENT
Soft skills. This should include	Individual Assignments
knowledge of what the job of process	Closed book Exams
operator includes, teamwork, quality,	Final Exam
safety, and the history of the process	
industry.	
The vocabulary of the process industry.	Individual Assignments
This should include common terms for	Closed book Exams
both activities and for pieces of	Final Exam
equipment and equipment operation.	
Equipment such as valves, heat	Individual Assignments
exchangers pumps, compressors, etc.	Closed book Exams
This knowledge should include operation	Final Exam
and the names of the equipment and the	
parts of the equipment.	
Safety is an issue of primary concern to	Individual Assignments
the chemical industry. Doing the job	Closed book Exams
safely is one of the objectives in the	Final Exam
Introduction to Process Technology	
course.	
Process operations such as distillation,	Individual Assignments
utilities and other "auxiliary" equipment,	Closed book Exams
basic reactor flows, furnace and boiler	Final Exam
operation and process control. Process	
control should include the basic symbols	
used in process control.	
Beginning analytical thinking trouble	Individual Assignments
shooting of simple operations problems.	Closed book Exams
	Final Exam

IV. TEXTBOOK OR COURSE MATERIAL INFORMATION

A. Textbook

- Introduction to Process Technology. CAPT, Inc., 2nd Ed., Pearson Publisher 2018 ISBN: 978-0-13-480824-6 (required)
- 2. Safety Glasses (Optional)

Required course materials are available at the Brazosport College bookstore, on campus or online at <u>http://brazosport.edu/bookstore/home.html.</u> A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer.

For Distance Education Courses include the following: Contact the Brazosport College Bookstore with a credit card for course materials. Phone: 979-230-3651. Fax: 979-230-3653. Email:<u>bookstore@brazosport.edu</u>. Website: <u>http://brazosport.edu/bookstore/home.html.</u>

Introduction to Process Technology is the first process technology course that a student will take in the degree program for an Associate of Applied Science Degree in Chemical Technology – Process Operations Option. This curriculum is designed as a 2-year (full time) program to train students for careers as Process Technicians in the chemical and refining process industries. This course is the foundation course for the program.

Introduction to Process Technology provides a general overview of the process industry, the roles and responsibilities of Process Technicians, types of equipment and processes handled on the job, and the general knowledge, skills, and attitudes needed to succeed as a Process Technician.

B. Course Outline

The outline for this course is laid out in a separate document titled: "PTAC 1302 Overview"

Important Semester Dates:

Last Day to Withdraw from Classes– Check BC Academic Calendar at http://catalog.brazosport.edu/index.php

Office Hours:

For fulltime faculty, office hours may change from semester to semester. Current faculty office hours are included on the syllabus, see link: <u>https://brazosport.edu/faculty-and-staff/resources/course-syllabi-instructor-information/</u>

For an adjunct faculty, no office hours are required, and they are not assigned an office. To set up an appointment with an adjunct, contact the instructor as per the email address on the syllabus, see link: <u>https://brazosport.edu/faculty-and-staff/resources/course-syllabi-instructor-information/</u>

C. Virtual Campus/D2L: (for Online and Hybrid courses only)

Knowing how to use Virtual Campus is an <u>absolute must</u> to succeed in this course. Locations of technical support information on the Virtual Campus are on the school website, the Virtual Campus login page, on the My Home page, and Course Home areas of each online course. These areas contain links to:

- technical support
- manuals & videos
- orientation to online courses
- distance learning website

Here is one of several links you can use to review and learn how to use Virtual Campus: <u>http://brazosport.edu/DL</u>

D. Check "Contents" in D2L to keep up with weekly assignments starting your first week.

Check D2L for up-to-date due dates/deadlines.

• Deadlines are not flexible. Only negotiable due to emergencies/event out of your control, and with written excuse from employer, doctor, etc.

- Students must use D2L to keep up with announcements, assignments, etc.
- Several elements of D2L may be used including Dropbox, Discussions, Contents, Quizzes and more.
- The assignments and quizzes should all appear in "Contents". Contents are a key area for you to check.

J. Communications with Instructor

- Please send any emails to me through D2L or brazosport email.
- <u>Make sure and identify which course and section you are in</u> because I instruct more than one course/section and need this information to locate your information online.
- I would highly recommend forwarding your D2L emails to an email account that you check regularly. Instructions for this are on D2L along with other useful resource.
- I would also recommend using the D2L notifications feature to remind you of upcoming assignments and other available topics.

V. STUDENTS WITH DISABILITIES

Brazosport College is committed to providing equal education opportunities to every student. BC offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. For student to receive any accommodation, documentation must be completed in the Office of Disability Services. Please contact Phil Robertson, Special Populations Counselor at 979-230-3236 for further information.

VI. TITLE IX STATEMENT

Brazosport College faculty and staff are committed to supporting students and upholding the College District's non-discrimination policy. Under Title IX and Brazosport College's policy FFDA (Local), discrimination based on sex, gender, sexual orientation, gender identity, and gender expression is prohibited. If you experience an incident of discrimination, we encourage you to report it. While you may talk to a faculty or staff member at BC, please understand that they are "Responsible Employees" and must report what you tell them to college officials. You can also contact the Title IX Coordinators directly by using the contact information below. Additional information is found on the Sexual Misconduct webpage at www.brazosport.edu/sexualmisconduct.

Mareille Rolon, HR Coordinator and Title IX Coordinator Office C-114; 979-230-3303; <u>mareille.rolon@brazosport.edu</u>

VII. ACADEMIC HONESTY

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of

academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and may, at a minimum, result in F, in this course. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services. Please refer to the Brazosport College Student Guide for more information. This is available online at http://brazosport.edu/students/for-students/student-services/.

VIII. ATTENDANCE AND WITHDRAWAL POLICIES

Class attendance contributes to your final grade and you must attend class to successfully complete the course. If you are unable to complete this course, you must complete and submit a withdrawal form with the registrar. If the student decides to drop out of the class, it is the responsibility of the student to initiate a withdrawal before the withdrawal deadline in order to get a "W" on their transcript. If this is not done the student will receive a grade based on test grades and class grades earned during their attendance and absence (i.e., zeros on all missed materials, exams, skills tests, and final exam).

IX. COURSE REQUIREMENTS AND GRADING POLICY TESTING MAKE-UP POLICY

A. Grading Policy:

Exams	40%
Homework (D2L Quizzes / Systran)	25%
Final Exam	25%
Participation	10 %
TOTAL:	100%

Grades are assigned as follows:

Grade	Final Average
А	90-100
В	80-89
С	70-79
D	60-69
F	Below 60

X. STUDENT CONDUCT STATEMENT

Students are expected to be aware of and follow the Brazosport College Student Code of Conduct. Students have violated the Code if they "fail to comply with any lawful directions, verbal or written, of any official at BC." Lawful directions include precautions and requirements taken to prevent the spread of COVID-19 at Brazosport College. Students who do not follow safety requirements, including the wearing of a mask, may be removed from class by their instructor and referred to the Dean of Student Services.

XI. COVID-19 STATEMENT

At Brazosport College, all of us, including faculty, staff and students, share a common goal this fall semester, to keep our classes running in the safest manner possible and avoid any disruption to your progress in achieving your educational and career goals. To that end, we ask and encourage you to conduct yourself in the following manner while on campus this semester:

- Every day, perform a self-health check prior to coming to campus and stay home if sick.
- To the greatest extent possible, maintain your distance between you and other students, faculty, and staff while on campus.
- Wear a properly fitted face covering over your mouth and nose while indoors on campus. If you do not have a mask, they will be available to you in all classrooms this fall.
- Practice good hygiene, washing your hands regularly and/or using hand sanitizer.
- The most effective way to protect yourself from Covid-19 is through vaccination. The vaccine is readily available and at no cost to you. Vaccine information and availability can be found at https://brazosport.edu/coronavirus/vaccine/.

If at any time this semester you begin to experience Covid symptoms, or if you are exposed to someone who has tested positive for Covid-19, please take the following steps:

- Stay home if you're feeling sick and minimize your contact with others.
- Alert the College by completing the Covid-19 Exposure Report Form online at <u>https://brazosport.edu/coronavirus/report/</u>. Be sure to provide accurate contact information, including a <u>working phone number that you will answer</u>.
- After submitting the report, you will be promptly contacted by a member of our Rapid Response Team, who will ask you some specific questions about your situation and provide you with guidance moving forward.
- If it is determined that you should not come to class, your instructor will be notified. Please know that your instructor will consider course adjustments and potential make-up work <u>only if your case has been reported</u> to Brazosport College, and they've been notified by our response team. Your instructor will work with you to determine how to manage any make-up work.

While walk-ins are available, your visit will be easier if you pre-register by creating an account at <u>www.mychn.org</u>. In addition to providing health and behavioral services, CHN also provides COVID vaccinations and testing. All insurance is accepted and healthcare is provided on a sliding scale including no cost for those who need it.

Throughout the semester, please regularly check the College's Covid-19 information page at <u>https://brazosport.edu/coronavirus/</u>, where the latest updates and guidelines will be posted. As members of the BC community, all of us share a responsibility to each other to be as safe as possible.

XII. CAMPUS CLOSURE STATEMENT

Brazosport College is committed to the health and safety of all students, staff, and faculty and adheres to all federal and state guidelines. The College intends to stay open for the duration of the semester and provide access to classes and support services on campus in the safest way possible. The College will also comply with lawful orders given by applicable authorities,

including the Governor of Texas, up to and including campus closure. It is possible that on campus activities may be moved online and/or postpone if such orders are given.

XIII. STUDENT RESPONSIBILITIES

Students are expected to fully participate in this course. The following criteria are intended to assist you in being successful in this course:

- 1. Understand the syllabus requirements
- 2. Use appropriate time management skills
- 3. Communicate with the instructor
- 4. Complete course work on time, and
- 5. Utilize online components (such as Desire2Learn) as required.

XIV. OTHER STUDENT SERVICES INFORMATION

Information about the Library is available at <u>http://brazosport.edu/students/for-students/places-services/library/about-the-library</u> or by calling 979-230-3310.

For assistance with online courses, an open computer lab, online and make-up testing, audio/visual services, and study skills, visit Learning Services next to the Library, call 979-230-3253, or visit <u>http://brazosport.edu/students/for-students/places-services/learning-services/</u>.

For drop-in math tutoring, the writing center, supplemental instruction and other tutoring including e-tutoring, visit the Student Success Center, call 979-230-3527, or visit <u>http://brazosport.edu/students/for-students/student-success-center/math-center/.</u>

To contact the Physical Sciences and Process Technology Department call 979-230-3618.

The Student Services provides assistance in the following:

Counseling and Advising	979-230-3040
Financial Aid	979-230-3294
Student Life	979-230-3355

To reach the Information Technology Department for computer, email, or other technical assistance call the Helpdesk at 979-230-3266.



Get the information you need – when you need it. Click <u>http://geni.us/BRAZO</u> to install **BC Connect** on your mobile device to receive reminders, explore careers, map your educational plan, be in the know about events, find out about scholarships, achieve your goals and much more.