

LAREDO COMMUNITY COLLEGE COURSE SYLLABUS

INSTRUCTOR:	Ms. Melissa E. Jaimez, RN
DEPARTMENT:	Vocational Nursing
PHONE NUMBER/EXTENSION and EMAIL ADDRESS:	(956) 721-5255
OFFICE LOCATION: OFFICE HOURS:	Refer to Instructors Door Schedule
COURSE TITLE:	Clinical Maternity/Pediatrics Medical/Surgical
COURSE NUMBER:	VNSG 1362
COURSE LEVEL:	Intermediate (Semester II)
CONTACT HOURS (RANGE FOR STATE INFORMATION):	256 Contact Hours 3 Credit Hours
LAB:	N/A
TEXTBOOKS:	ATI Software Program SimChart Software
CORE or NON-CORE Course:	NON-CORE
COURSE DESCRIPTION:	<p>A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.</p> <p>Prerequisites: VNSG 1230, VNSG 1234, and VNSG 2331. Concurrent enrollment in VNSG 1409 and successful completion of Semester I courses with a grade of 75% (C) or better.</p>
END-OF-COURSE OUTCOMES:	<p>Upon completion of this course, the student will be able to :</p> <ol style="list-style-type: none"> 1. Apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry. 2. Demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication

	skills using the terminology of the occupation and the business/industry.
COURSE OBJECTIVES OR EXEMPLARY OBJECTIVES:	<p>Upon completion of this course, the student will be able to :</p> <ol style="list-style-type: none"> 1. Identify client care needs for Pediatric/Maternity and Medical Surgical conditions and assist with care planning, utilizing a systematic approach, through the nursing process 2. Identify the role of the vocational nurse in the teaching plan related to health promotion, maintenance and self care throughout the lifespan. 3. Discuss needs of culturally diverse clients to include the interdisciplinary health care team 4. Identify client needs for referral and facilitate utilization of community resources in order to ensure continuity of care across the lifespan. 5. Discuss the role of the vocational nurse in care planning with the client, family, and interdisciplinary healthcare team 6. Explain the roles the nurse may assume in providing nursing care within the limits of vocational nursing while maintaining ethical/legal standards of care 7. Describe the role of client advocate including client privacy, quality improvement, quality assurance and compassionate nursing care 8. Solve problems and build employability skills such as attitude, work ethic, and critical thinking
SCANS COMPETENCIES:	Refer to attachment
SCANS ASSESSMENT:	C1, C5, C6, C7, C10, C11, C12, C13, C14, C15
TEACHING STRATEGIES METHODS OF INSTRUCTION:	Teaching strategies and methods of instruction will include: Demonstrations, independent assignments, audiovisual media, pre and post conference, group discussions, computer assisted instructional programs, client care conferences, and individual client assignment and simulation lab.
OUTCOMES ASSESSMENT:	The students' achievement of the learning outcomes stated for the course will be measured by the clinical

	evaluation tool and nursing care plan.														
METHODS AND CRITERIA FOR EVALUATION:	<p>MATH COMPETENCY: Prior to medication administration, the student must earn 90% on a math competency test. The student will be allowed to take the exam three times including the original test. If after three attempts the student is unable to pass the exam, the student will be withdrawn from the clinical and theory courses. A 100% math competency must be demonstrated in direct clinical practice.</p> <p>A passing clinical grade is determined by achieving the defined level of competency for each critical element and a final course grade of 75% or greater.</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="2" style="text-align: center;">Clinical Performance</td> </tr> <tr> <td style="text-align: right;">Clinical Evaluation Tool</td> <td style="text-align: right;">65%</td> </tr> <tr> <td style="text-align: right;">Concept Map</td> <td style="text-align: right;">15%</td> </tr> <tr> <td style="text-align: right;">Math Test</td> <td style="text-align: right;">10 %</td> </tr> <tr> <td style="text-align: right;">Presentation</td> <td style="text-align: right;">10%</td> </tr> <tr> <td></td> <td style="text-align: right;"><hr style="width: 10%; margin: 0 auto;"/></td> </tr> <tr> <td></td> <td style="text-align: right;">100 %</td> </tr> </table> <p>Grades accumulated in the course will be recorded as scored to the tenth decimal point.</p> <p>For example: Concept map/objective = 74.23 would be recorded as 74.2</p> <p>The final course grade will be rounded off to the tenth decimal point and recorded as a whole number. For example: 74.5 = 75</p> <p>A minimum course grade of 75% must be achieved to successfully pass the course.</p> <p>A critical element is a performance standard or clinical behavior (skill) deemed essential to competent nursing practice. Competency is achieved when a grade evaluation of 75% is attained. Failure to achieve a 75% in each critical element represents a course failure. The additional course work (i.e. Concept Map) will be counted toward the final course grade only if the 75% is attained in the critical</p>	Clinical Performance		Clinical Evaluation Tool	65%	Concept Map	15%	Math Test	10 %	Presentation	10%		<hr style="width: 10%; margin: 0 auto;"/>		100 %
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	100 %														

element and a cumulative score of 75% is attained.

Clinical performance and written assignments are evaluated daily. Totaling the daily points and dividing by the number of clinical days evaluated derives the final course grade. At the end of the clinical course, the student must earn a minimum of 75% in each critical element and greater than 75% cumulative score on the evaluation tool. Failure to achieve a minimum score of 75% in each critical element and/or a 75% cumulative score on the clinical evaluation tool will represent a course failure.

Totaling the daily ratings at the end of the semester, if $\geq 75\%$, plus the Concept Maps derives the final course grade. The range of scores with the corresponding grade is determined for each semester. The first semester's point range for earning a 75% (C) is different from the second semester and so on. Progression is noted from Level I to Level III course.

Regarding absences in the clinical area refer to the Attendance Regulations section in the Syllabus.

The Clinical Evaluation Tool reflects the Differentiated Essential Competencies (DECs) of Graduates of Texas Vocational Nursing Programs . Clinical Evaluation Tool: essential elements noted by an * (refer to Clinical Evaluation Tool) must be 75% on each critical element to progress in the nursing program.

A major Concept Map plan will be completed during the course. The concept map should include a minimum of three nursing diagnosis addressing psychosocial and physiological needs with short and long-term goals. (Refer to Concept Map Grading Criteria).

All required work assignments must be submitted on time. Regardless of the circumstances, late work will be assessed penalty points by the instructor. The assignment will be docked five points for each late day including holidays and weekends. Refer to student Handbook.

	<p>The PASPort e-mail is one of the official ways for the student to communicate with the faculty member. Faculty members will e-mail class information, etc, to the student. It is the student's responsibility to notify the faculty member if he/she has not received an e-mail when it is announced that one is forthcoming. The student should access their course progress reports at:</p> <p>http://sc.webgrade.classmanger.com/LCCAlliedHlth</p>
<p>GRADING SCALE:</p>	<p>A = 100-90% B = 89-80% C = 79-75% D = 74-60% F= 59% or below NC= No credit (for developmental courses) P = Pass NP = No Pass AU = Audit</p> <p>Students must access the Semester Progress Report and Final grades through PasPort (http://passport.laredo.edu).</p> <p>Instructors will notify students of the window of availability for grades.</p>
<p>ATTENDANCE REGULATIONS:</p>	<p>ATTENDANCE REGULATIONS</p> <p>Attendance will be taken up until the official census date, which is the first 11 class days during the fall and spring semester, and for the first three days during the summer sessions. Students who attend at least one day of class leading up to the census date will be officially enrolled in the course, and faculty members will drop any students who have not attended at least one class day. Once the official census date for the semester or session has passed, no formal attendance will be required except for programs where the respective accreditation agency requires attendance records.</p> <p>Students who do not intend to remain enrolled after attending at least one class day must initiate a drop request from any or all classes by submitting a drop slip to the Enrollment and Registration Center or through PASPort. Responsibility for class attendance rests</p>

with the student. Regular and punctual attendance is expected.

Students enrolled in the Vocational Nursing Program:

In order to comply with the accrediting agencies' clinical requirements, if a student is absent during a clinical day, the student will not be allowed to make-up the clinical hours and a "zero" will be recorded as the grade.

A student who exceeds the clinical absence requirements must refer to the student handbook.

It is advised that a student contact Financial Aid Center at (956) 721-5361 prior to dropping a course.

Absence From Final Examinations:

A student who is absent from a final examination receives a grade of "0" for the examination and a grade of "F" for the course. Any students authorized to be absent from a final examination receive a grade of **F*** on their transcript until they take the final examination. Such students must take the final exam within four months. Final exams cannot be re-taken.

Other Policies (LCC and State-Wide):

A. 3-peat—If a student signs up for a class for a third time, even if he/she dropped or failed it before, the State will not provide funding for that student and the student will be required to pay an additional fee.

B. 6 W's—Beginning Fall 2007, students cannot drop more than 6 classes throughout their college career. Any subsequent drops will become F's. The rule includes credits earned at all Texas colleges/universities, and W's will carry over when transferring to other institutions.

C. Finishing on time—The State expects students to graduate on time. Students who obtain **90** or more credit hours at a Community College are no longer eligible for financial aid.

D. Bacterial Meningitis Vaccination Requirement effective Spring 2012.

- Per Texas State Law (SB 1107), students who meet the criteria below, must provide proper documentation that they have received the *bacterial meningitis vaccination* within the last

	<p>five years and at least 10 calendar days before the beginning of the semester.</p> <ul style="list-style-type: none"> • All new or transfer students under age 30. • All returning students under the age of 30, who have experienced a break in enrollment of at least one fall or spring term. • Students enrolled in online courses that physically attend classes or come to campus within the semester.
<p>SPECIAL SERVICES CENTER:</p>	<p>A student with disabilities, including learning disabilities, who wishes to request special accommodations in this class should notify the Special Services Center. The request should be made early in the semester so that appropriate arrangements may be made. In accordance with Federal Law, a student requesting accommodations must provide documentation of his/her disability to the Special Services Counselor. For additional information, visit the Special Services Center at:</p> <ul style="list-style-type: none"> • Fort McIntosh Campus - KCC Room 213 or call 721-5137. • South Campus – Billy Hall Student Center Room 121 or call 794-4137. <p>The student who needs note-taking and/or test-taking accommodations must notify the faculty member prior to the first exam.</p> <p>A pregnant student is required to meet all course/program outcomes, including attendance.</p> <p>There may be contaminants present in clinical area(s) that could adversely affect a fetus. It is advisable for the student to contact her obstetrician, once pregnancy has been confirmed, to ensure that there are no medical concerns/limitations to continuing their courses.</p>
<p>GRADE APPEAL:</p>	<p>A student who wishes to question the final grade earned in a course or class activity should first discuss the situation with the instructor who issued the grade. If the issue is not resolved, the student should contact the appropriate Department Chairperson to request a review of the grade.</p> <p>If the student is not satisfied with the Department Chairperson’s decision, the student may contact the</p>

	<p>appropriate Dean of Instruction for assistance related to the grade appeal. Established departmental procedures will be utilized to resolve student grade appeals. After all other avenues have been exhausted; the student may request a review of the grade by the Vice-President for Instruction. Student grades are an academic matter; therefore, there is no further appeal beyond the Office of the Vice-President for Instruction.</p> <p>Students have two weeks (10 working days) after a final course grade is issued to appeal it. Students have one week (five working days) after an activity grade is issued to appeal it. Exceptions require the approval of the Vice-President for Instruction.</p>
<p>CLASSROOM ETIQUETTE:</p>	<p style="text-align: center;">Code of Student Conduct & Discipline</p> <p>Each student is expected to be fully acquainted with all published policies, rules, and regulations of the college, copies of which shall be available to each student for review at the Office of Dean of Student Affairs. Laredo Community College will hold each student responsible for compliance with these policies, rules, and regulations. The student is responsible for obtaining published materials to update the items in this Code. Students are also expected to comply with all federal, state, and local laws. This principle extends to conduct off campus which is likely to have an adverse effect on Laredo Community College or on the educational process.</p> <p style="text-align: center;">Student Misconduct</p> <p>Each student is expected to conduct him/herself in a manner consistent with the college's functions as an educational institution. Specific examples of misconduct and the disciplinary process is located at www.laredo.edu (go to Student Information, then Student Handbook).</p> <p style="text-align: center;">Use of Personal Electronic Devices</p> <p>The use of an electronic device shall not interfere with the instructional, administrative, student activities, public service, and other authorized activities on College District premises. Unless prior authorization is obtained from the instructor or respective College District official, the use of an electronic device is expressly prohibited in classrooms, laboratories, clinical settings, and designated quiet areas on College District premises. Certain</p>

violations of this policy may be excused in the case of emergencies or other extenuating circumstances provided that prior approval is obtained from the instructor or respective College District official.

The use of electronic equipment capable of capturing still or moving images in any location where individuals may reasonably expect a right to privacy is not authorized on College District premises. Noncompliance with these provisions shall be considered a violation of Board adopted policy and shall warrant appropriate disciplinary action.

Academic Dishonesty

The College expects all students to engage in all academic pursuits in a manner that is beyond reproach. Students will be expected to maintain complete honesty and integrity in their experiences in the classroom. Any student found guilty of dishonesty in their academic work is subject to disciplinary action.

(1) The College and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, the following:

A. **Scholastic dishonesty** includes, but is not limited to, cheating on academic work, plagiarism, and collusion.

B. Cheating on academic work includes:

a. Copying from another student's test paper or other academic work.

b. Using, during a test, materials not authorized by the person giving the test.

c. Collaborating, without authority, with another student during an examination or in preparing academic work.

d. Knowingly using, buying, selling, stealing, transporting, or soliciting, in whole or part, the contents of an unadministered test.

e. Substitution for another student, or permitting another student to substitute for oneself, to take a test or prepare other academic work.

f. Bribing another person to obtain an unadministered test or information about an unadministered test.

C. **Plagiarism** means the appropriation of another's work and the unacknowledged incorporation of that work in one's own written work offered for credit.

D. **Collusion** means the unauthorized collaboration with

	<p>another person in preparing written work offered for credit.</p> <p>(2) Procedures for discipline due to academic dishonesty shall be the same as in student disciplinary actions, except that all academic dishonesty actions shall be first considered and reviewed by the faculty member. If the student does not accept the decision of the faculty member, he/she may appeal the decision to the appropriate Department Chairperson, Dean of Instruction, or the Vice President for Instruction. If the student does not accept the decision of the appropriate Department Chairperson, Dean of Instruction, or the Vice President for Instruction, the student may then follow the normal disciplinary appeal procedures for a review of the decision.</p> <p>For additional information please refer to the: Student Policies - LCC Policy Manual The LCC Policy Manual is available online and includes all Federal, State, and Local Policies applicable to the college. Students may access the LCC Policy Manual through LCC’s Web Page (www.laredo.edu) - Homepage, select-Campus Information, select - Manual of Policy.</p>
EMERGENCY PROCEDURES:	<p><u>LCC Alert System:</u> Safety and security for LCC is paramount. When an emergency arises, LCC will provide students with information as rapidly and as efficiently as possible. Students must register for the LCC Alert system at www.laredo.edu/lccalert.</p> <p><u>Fire:</u> Upon activation of the alarm, you will quietly and calmly exit the building from the nearest exit. Once everyone has gathered, at a predetermined or arranged site, a roll call shall be taken to ensure everyone is out of the building. If the building is on fire, no one should be near it to allow firefighting equipment and emergency vehicles to access the building. Additionally, the building(s) may have chemicals, paints, or aerosol cans may have explosions that could be dangerous to anyone near the building.</p> <p>No one should re-enter the building until an “All Clear” has been given. The “All Clear” shall be determined by a senior campus official in cooperation with the incident commander from the responding agency.</p>

	<p>PLEASE NOTE: The Science buildings do contain several types of biological and chemical agents. Some of these agents are stored in large quantities, while some are considered dangerous to human health through contact to skin or if fumes are inhaled. The building signage should be placed to warn responding emergency personnel if they should put on SCBA or wear “HAZ-MAT” suits in lieu of or over turnout gear.</p> <p><u>Injury, Person Down, Illness, Stalking or Theft:</u> Call the Campus Police (Main 721-5303; South 794-4303 or 111 Emergency) and/or the campus nurse (Main 721-5189; South 794-4189) to alert emergency personnel. Give the location of the person and briefly describe the person’s condition. If the person is not breathing or does not have a pulse, call 9-911 to alert the City of Laredo emergency services.</p> <p>For serious injury, illness, heart attack etc., call 111 from any Campus phone or 911 from your personal cell phone. A back up call should be made to the Campus Police and the Campus Nurse. They may be able to arrive on the scene quicker than the EMT’s and City police. When placing an emergency call, be sure to give instructions to the nearest entrance to the building, thus saving time for emergency personnel.</p> <p><u>Assault:</u> Call the Campus Police (Main 721-5303; South 794-4303 or 111 Emergency) and 9-911 to alert the City of Laredo emergency services. For any possible threats to life or property from criminal acts call Campus Police. Please remember that after hours they operate on a limited staff basis.</p>
DISCLAIMER:	Every attempt has been made to make the contents of this syllabus informative and accurate. Content of the syllabus is subject to revision and change in the event of extenuating circumstances. Changes will be distributed to you in writing.

The updated official version of the LCC Catalog is the on-line catalog and can be found at www.laredo.edu.

COURSE SCHEDULE
VNSG 1362 – Clinical Pediatric/Maternity SimChart Assignments

**Schedule is subject to change*

Week Date	Brief Description of Topic	Assignments/Examinations/ Activities with Brief Description	Chapters/Reading
Week 1 Jan.14-15	Boyle, Emily	Women’s Health: Labor (75 minutes)	Due: 01/23/2013
Week 2 Jan. 21-22	Gomez, Pedro	Pediatric: Compound Fracture (50 minutes)	Due: 01/30/2013
Week 3 Jan. 28-29	Jones, Monique	Woman’s Health: External Cephalic Version (90 minutes)	Due: 02/06/2013
Week 4 Feb. 4-5	Parker. Johnny	Pediatric: Unintentional Acetaminophen Poisoning (70 minutes)	Due: 02/13/2013
Week 5 Feb. 11-12	Rodriguez, Noemi	Woman’s Health: Preeclampsia (95 minutes)	Due: 02/20/2013
Week 6 Feb. 18-19	Binder to include concept map,all clinical objectives, assessments and nurses notes <u>DUE</u> on : 04/21/2013		
Week 7 Feb. 25-26	Medication Administration	The Nurse’s Role in Medication Administration	Due: 03/06/2013
Week 8 March 4-5	Medication Administration	Respiratory Medication	Due: 03/20/2013
Week 9 March 18-19	Medication Administration	Hematologic Medication	Due: 03/28/2013
Week 10 March 25-26	Medication Administration	Ophthalmic Medication	Due: 04/03/2013
Week 11 April 1-2	Medication Administration	Gastrointestinal Medication	Due: 04/10/2013
Week 12 April 8-9	Medication Administration	Musculoskeletal and Renal Medications	Due: 04/17/2013
Week 13 April 15-16	Medication Administration	Cardiovascular Medication	Due: 04/24/2013

Week 14 April 22-23	Medication Administration	Central Nervous System	Due: 05/01/2013
Week 15 April 29-30	Medication Administration	Hormones Medication	Due: 05/08/2013
Week 16 May 6-7		Finals	

**TEACHING PROJECT PRESENTATION GUIDELINES
VNSG 1362 Med/Surg CLINICAL ROTATION**

The student's display and teaching handout will be graded using the following criteria for a total point value of 100 points.

1. Create a visual poster displaying the assigned topic and state the intended audience/age group.
2. Organize the presentation logically and outline teaching points to be presented.
3. Include a statement on the visual display and teaching point's handout that includes the teaching/learning needs for the assigned topic.
4. Create a teaching point's handout to utilize with the target audience and submit a copy to the clinical instructor for grading.
5. Research community resources available for further information about the topic and include on display websites, support groups, clinics, etc. Cite resources on teaching handout.
6. Include the student's name in the front of the visual display and on the teaching handout.

TEACHNG PLAN CRITERIA VISUAL DISPLAY	POINTS AVAILABLE	POINTS EARNED
Visual Creativity of Display.	20	
Organized the visual display presentation logically.	10	
Identified topic, subtopic, age group, and teaching need for topic on visual display.	5	
Actively interacted with target audience.	10	
Demonstrated professional behaviors with target audience.	10	
Identified teaching points on visual display.	10	
Identified community resources for further information about assigned topic on visual display.	5	

TEACHNG PLAN CRITERIA (1 PAGE) TEACHING HANDOUT	POINTS AVAILABLE	POINTS EARNED
Identified topic, subtopic, and age group.	5	
Discussed the teaching learning need for assigned teaching topic.	10	
Described specific teaching points for assigned topic.	10	
Cited resources utilized for teaching project.	5	
TOTAL POINTS	100 POINTS	

LAREDO COMMUNITY COLLEGE
COURSE SYLLABUS
STUDENT ACKNOWLEDGEMENT

I have read and understand the information and requirements of the syllabus for

Course & Number

Student Name

Palomino ID

Date

Admission into and/or graduation from the program does not guarantee employment, any particular salary level, and/or passage on any licensure examinations.

Student Signature _____

Faculty Name _____

SCANS COMPETENCIES

ENCLOSURE

The Secretary's Commission on Achieving Necessary Skills (SCANS) has identified foundation skills and workplace competencies for students. Foundation Skills are defined in three areas: basic skills, thinking skills, and personal qualities. Basic Skills includes Reading, Writing, Arithmetic and Mathematical Operations, Listening, and Speaking effectively. Thinking Skills include a worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively. Personal Qualities include a worker must display responsibility, self esteem, sociability, self management, integrity, and honest. Work Place Competencies include resources, interpersonal skills, information, systems, and technology.

Resources.

- C1. **Allocates Time:** Selects relevant, goal-related activities, ranks them in order of importance, allocates time to activities, and understands, prepares, and follows schedules.
- C2. **Allocates Money:** Uses or prepares budgets, including making cost and revenue forecasts, keeps detailed records to track budget performance, and makes appropriate adjustments.
- C3. **Allocates Material and Facility Resources:** Acquires, stores, and distributes materials, supplies, parts, equipment, space, or final products in order to make the best use of them.
- C4. **Allocates Human Resources:** Assesses knowledge and skills and distributes work accordingly, evaluates performance, and provides feedback.

Interpersonal

- C5. **Participates as a member of a team:** Works cooperatively with others and contributes to group with ideas, suggestions, and effort.
- C6. **Teach Others New Skills:** Helps others to learn.
- C7. **Serves Clients/Customers:** Works and communicates with clients and customers to satisfy their expectations.
- C8. **Exercises Leadership:** Communicates thoughts, feelings, and ideas to justify a position, encourages, persuades, convinces, or otherwise motivates an individual or groups: including responsibly challenging existing procedures, policies, or authority.
- C9. **Negotiates to Arrive at a Decision:** Works toward an agreement that may involve exchanging specific resources or resolving divergent interests.
- C10. **Works with Cultural Diversity:** Works well with men and women and with a variety of ethnic, social, or educational backgrounds.

Information

- C11. **Acquires and Evaluates Information:** Identifies need for data, obtains it from existing sources or creates it, and evaluates its relevance and accuracy.
- C12. **Organizes and Maintains Information:** Organizes, processes, and maintains written or computerized reports and other forms of information in a systematic fashion.
- C13. **Interprets and Communicates Information:** Selects and analyzes information and communicates the results to others using oral, written, graphic, pictorial, or multi-media methods.
- C14. **Uses Computers to Process Information:** Employs computers to acquire, organize, analyze, and communicate information.

Systems

- C15. **Understands Systems:** Knows how social, organizational, and technological systems work and operates effectively within them.
- C16. **Monitors and Corrects Performance:** Distinguishes trends, predicts impact of actions on system operations, diagnoses deviations in the function of a system/organization, and takes necessary action to correct performance.
- C17. **Improves and Designs Systems:** Makes suggestions to modify existing systems to improve products or services, and develops new or alternative systems.

Technology

- C18. **Selects Technology:** Judges which set of procedures, tools, or machines, including computers and their programs will produce the desired results.
- C19. **Applies Technology to Task:** Understands the overall intent and the proper procedures for setting up and operating machines, including computers and their programming systems.

C20. **Maintains and Troubleshoots Technology:** Prevents, identifies, or solves problems in machines, computers, and other technologies.