

## CHM 142 General Chemistry II (Section 16130 Fall 2022 In-person)

### Description

Students enrolled in this course should have good background from General Chemistry I or equivalent course. The course will follow the outline of the given textbook. We will cover chapters 11-19. At the end of this course you should have a representative understanding of some of the fundamental concepts in the chemical sciences. Based on the course objectives, the student will comprehend how chemistry is important and relevant in daily life. The student will demonstrate an understanding of how intermolecular forces influence the different states of matter, including solutions properties. The student will learn and apply the kinetics and thermodynamics principles, including entropy and free energy. The student will learn the electrochemistry. The student will demonstrate analytical and problem solving skills. Since this course is part of the flexible core of General Education, the students are expected to reach the following General Education goals:

1. Gather, interpret, and assess information from a variety of sources and points of view.
2. Evaluate evidence and arguments critically or analytically.
3. Produce well-reasoned written or oral arguments using evidence to support conclusions.
4. Identify and apply the fundamental concepts and methods of a discipline or interdisciplinary field exploring the scientific world, including, but not limited to: computer science, history of science, life and physical sciences, linguistics, logic, mathematics, psychology, statistics, and technology-related studies.
5. Demonstrate how tools of science, mathematics, technology, or formal analysis can be used to analyze problems and develop solutions.
6. Articulate and evaluate the empirical evidence supporting a scientific or formal theory.

### Instructor

Dr. Chwen-Yang Shew Email: [chwemang.shew@csi.cuny.edu](mailto:chwemang.shew@csi.cuny.edu) Office: 6S-242 Office hours: Mon and Wed 10:15-11:30 (in-person)

### Text Books

1. **Primary:** Chemistry & Chemical Reactivity by John C. Kotz, Paul M. Treichel, John R. Townsend, and David Treichel 10<sup>th</sup> Edition (ISBN-10: 1337791164 | ISBN-13: 9781337791168)
2. **Recommended:** Cengage OWLv2 of the course.

### Course Hours

Lecture: Mon and Wed 12:20 PM – 2:15 PM in 3S-103.

### Grading

Homework* (Blackboard)	5 points
Quizzes (in class)	20 points
Midterm Exams (2 Exams)	40 points (25(higher)+15 (lower))

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*Agency Red Book* ,1998-07      The Last Years of a Frontier Douglas Leonard Walton Tough, 1928      *CIS US*  
*Congressional Committee Hearings Index: 79th Congress-82nd Congress, 1945-1952 (6 v.)* ,1981      St. Louis Commerce  
,1994      Directory of Corporate Affiliations ,2002 Directory is indexed by name parent and subsidiary geographic location  
Standard Industrial Classification SIC Code and corporate responsibility      **CIS US Congressional Committee Hearings**  
**Index: 74th Congress-78th Congress, 1935-1944 (6 v.)** ,1981      *Modern Nutrition in Health and Disease* Michael  
Gershon Wohl, 1964      **Board of Contract Appeals Decisions** United States. Armed Services Board of Contract  
Appeals, 1993      *The Oracle* ,1881      **The American Contractor** ,1913      **Replies [afterw.] The Oracle** ,      **The**  
**Postal Record** ,1914      Popular Science ,1983-02 Popular Science gives our readers the information and tools to improve  
their technology and their world The core belief that Popular Science and our readers share The future is going to be better  
and science and technology are the driving forces that will help make it better      **The Illustrated London News** ,1844  
Standard Directory of Advertisers ,1991      **Bazaar Exchange and Mart, and Journal of the Household** ,1880  
**Hispanic Media & Market Source** ,2004      *SRDS Consumer Magazine Advertising Source* ,1999

Custom Published Chm 142: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Custom Published Chm 142 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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web plutôt fréquente chez les sportifs la rupture du ligament croisé antérieur lca désigne une atteinte douloureuse d un des ligaments responsables de la stabilité du genou voici une explication détaillée de cette pathologie du genou avec ses causes facteurs de risques symptômes moyens de prévention et son diagnostic

### **déchirure du ligament croisé antérieur service d chuv** - Apr 12 2023

web apr 11 2019 fig 1 ligament croisé antérieur déchiré de quoi s agit il le ligament croisé antérieur assure la stabilité en translation antérieure et rotation et contribue à la stabilité du genou il assure également une protection des ménisques

### *ligamentoplastie du croisé antérieur à paris dr paillard* - May 01 2022

web le but de la ligamentoplastie du croisé antérieur est de récupérer un genou parfaitement stable permettant tous types d activités en évitant les lésions cartilagineuses ou méniscales et donc la dégradation de l articulation

### *ligament croisé antérieur définition et explications* - May 13 2023

web le ligament croisé antérieur sigle lca est un ligament situé à l intérieur de l articulation du genou sa lésion est fréquente lors d un traumatisme un traumatisme est un dommage de la structure ou du fonctionnement du corps ou du psychisme

### ligament croisé antérieur pathologies et traitements - Aug 16 2023

web le ligament croisé antérieur se situe au niveau de l articulation du genou qui implique trois os le fémur qui correspond à l os de la cuisse le tibia qui désigne l os de la jambe et la

**ligamentoplastie du ligament croisé antérieur au sciencedirect** - Dec 08 2022

web dec 1 2021 la rupture du ligament croisé antérieur lca est une lésion fréquente représentant près de 100 000 cas en france chez le patient jeune un traitement chirurgical par reconstruction est habituellement proposé avec des résultats très satisfaisants 1

rupture du ligament croisé antérieur traitements □ carea kiné - Dec 28 2021

web comme son nom l indique une rupture du ligament croisé antérieur désigne la rupture partielle ou complète d un des ligaments spécifiques de l anatomie du genou symptômes diagnostic causes voyons plus en détails ce qu est réellement cette pathologie

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web capsule articulaire appareil extenseur du genou le tendon quadricipital et le tendon rotulien le ligament croisé antérieur est une structure ligamentaire importante permettant une stabilisation du genou notamment dans les mouvements de translation antérieure et aussi dans la stabilité rotatoire du genou

*rupture du ligament croisé antérieur faut il opérer* - Feb 27 2022

web le ligament croisé antérieur lca peut se rompre partiellement ou totalement au cours d un traumatisme le plus souvent sportif à la suite d un mouvement de torsion ou d hyperextension

**rupture de ligament croisé wikipédia** - Jan 09 2023

web une rupture de ligament croisé lc ou déchirure de ligament croisé est une rupture complète ou partielle de l un ou des deux lc d un genou dans la plupart des cas c est le ligament croisé antérieur ligamentum cruciatum anterius lca qui est concerné

**chirurgie du ligament croisé antérieur lca techniques** - Jun 14 2023

web les lésions du ligament croisé antérieur lca ne sont généralement pas réparées à l aide de sutures directes le lca déchiré est remplacé par une greffe de remplacement faite de tendon autogreffe greffe provient du patient du tendon rotulien

*ligament croisé antérieur wikipédia* - Jul 15 2023

web le ligament croisé antérieur sigle lca ou ligament croisé antéro externe dans l ancienne nomenclature est un ligament situé à l intérieur de l articulation fémoro tibiale il fait partie de la paire des ligaments croisés du genou avec le ligament croisé postérieur

*clinical diagnosis of an anterior cruciate ligament rupture a meta* - Nov 07 2022

web objectives to define the accuracy of clinical tests for assessing anterior cruciate ligament acl ruptures background the

cruciate ligaments and especially the acl are among the most commonly injured structures of the knee