

WINTER 2024
TOPICS IN CHEMISTRY
CHEM-4703(3)

“UNIQUE CHEMICAL SPECIES IN HEALTH AND DISEASE”

Instructor: Dr. Michael O. Eze

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**Explore Common Denominators in Health, Ill-health, and Disease,
including **COVID-19** and other Viral Infections**

Avoid

Oxidative Stress

Minimize

Inflammation,

Diabetes and Complications, Aging, Cancer,

Neurodegenerative & Other Degenerative, Infectious, and Chronic Diseases

Consume Fresh Natural Foods: for Optimal Health

Pre-requisite: *Permission of Instructor*

Course Description: See *Chemistry Website* uwinnipeg.ca/chemistry

CHEM-4703(3) TOPICS IN CHEMISTRY

“UNIQUE CHEMICAL SPECIES IN HEALTH AND DISEASE”

This course addresses “UNIQUE CHEMICAL SPECIES” [reactive oxygen and reactive nitrogen species (ROS and RNS), advanced glycation end products (AGEs), and others], participating as common denominators in health, ill-health and disease: E.g., neurodegenerative and other degenerative, chronic and infectious, diseases (including COVID-19), oxidative stress, inflammation, chemical toxicity, cancers, host-pathogen interactions, and therapy and immunology. Implicit derangements in homeostasis predispose individuals to aging. Eating healthy fresh foods augments needed antidotes, enhancing optimal health.

[**Pre-requisite: *Permission of Instructor***]

Course Description: See *Chemistry Website* uwinnipeg.ca/chemistry