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Donald L. Crawshaw currently is the Department Chairman and Instructor of the HVAC program at Pikes Peak Community College (PPCC), Colorado Springs, Colorado. Mr. Crawshaw earned an Associates of Arts degree in Technical Theatre from Independence

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perforated pages so that a given chapter can be removed and turned in for grading or checking.

Carbonyl group

Caramelization Cross-planar bond

Dextrins

Disaccharides

Furanose Glycosidic bond

Hydroxyl group Invert Sugar

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Sugar Maillard  
reaction

Monosaccharide

Oligosaccharide

Polysaccharide

Pyranose Reducing  
sugar Reference

carbon atom

Reference hydroxyl

group Sugar alcohol

Supersaturated

solution Trisaccharide

LECTURE OUTLINE

I. INTRODUCTION 2.

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## MONOSACCHARIDE

S \* monosaccharides

- Examples of monosaccharides:

glucose \* aldose

sugar \* reference

carbon atom \*

reference hydroxyl

group \* pyranose \*

anomers \* alpha

anomer 10

## CARBOHYDRATES IN THE FOOD GUIDE

PYRAMID \* beta

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anomer \* anomeric

hydroxyl group \*

anomeric carbon

atom • Fructose \*

ketose sugars \*

furanose \* carbonyl

group 3.

DISACCHARIDES \*

disaccharides •

Glycosidic bonds \*

glycosidic bond •

Examples of

disaccharides:

maltose and



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cellobiose \* Cross-  
planar bonds •

Sucrose \* invert sugar

4. SOME

PROPERTIES OF  
SUGARS •

Sweetness •

Formation of solutions  
and syrups \*

supersaturated

solution • Body and  
mouthfeel •

Fermentation •

Preservatives •

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Reducing sugars \*

reducing sugars \*

Maillard reaction •

Caramelization \*

caramelize • Sugar

alcohols \* sugar

alcohols S. OLIGOSA

CCHARIDES \*

oligosaccharides \*

trisaccharides 6.

POLYSACCHARIDES

\* polysaccharides

CARBOHYDRATES

IN FOOD - AN

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INTRODUCTION 11 •  
Dextrins and Dextrans  
\* dextrins \* dextrans •  
Starch • Pectins and  
other polysaccharides

7. CONCLUSION \*  
this term is defined in  
the textbook chapter  
glossary CHAPTER 4  
Starches in Food

LEARNING

OBJECTIVES The  
reader will be able to:

1. Identify sources of

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starch, including  
cereal grains, roots  
and tubers. 2.

Describe the structure  
and composition of  
starch, including  
amylose and  
amylopectin .

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